oods Epitomie:

BEING THE

APPLICATION

OF

The Doctrine of TRIANGLES

In certain Problemes, concerning the use of

Being the two most usual kinds of Sailing:

With a Table of Artificial Sines

Tangents, and the Complements Arithmetical of Sines supplying the use of Secants.

To Radius 10, 00000, and to every degree

ALSO

A Chiliad, of the Logarithmes of absolute Numbers, from a Unite to 1000, with a Table of the Right.

Ascendion and Declination of the Sun: and certain principal Stars that are most in use.

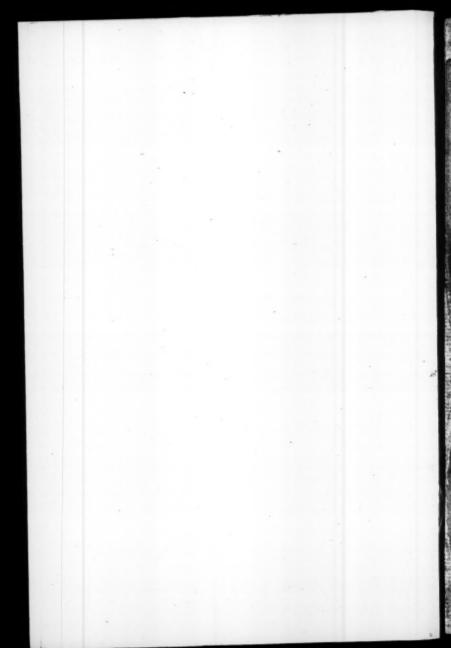
Whereunto is added the farther use of the forenamed Tables in Questions that concern Navigation, Astronomie and Geographie.

By Richard Norwood, Reader of the MATHEMATICES.

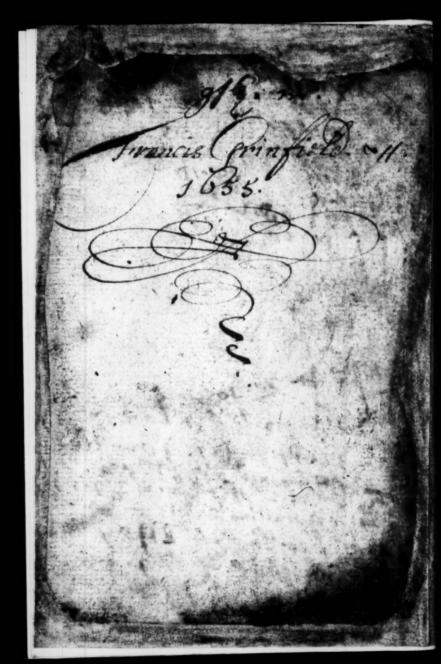
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Church-corner, 1886.



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APPLICATION

OF

The Doctrine of TRIANGLES

In certain Problemes, concerning the use of the Plain Sea-Chart, and Adercators Chart.

Being the two most usual kinds of Sailing;

With a Table of Artificial Sines

Tangents, and the Complements Arithmetical of Sines supplying the use of Secanes.

To Radim 10, 00000, and to every degree

ALSO

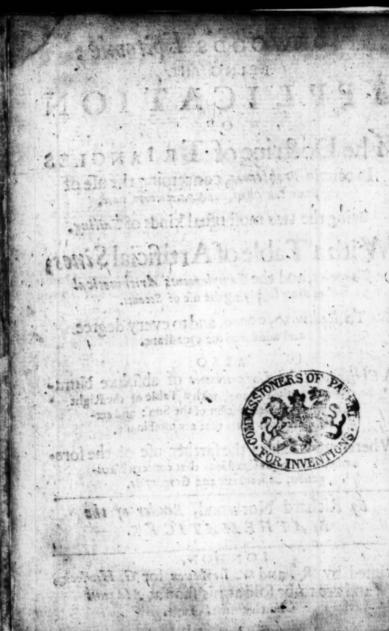
A Chiliad, of the Logarithmes of absolute Numbers, from a Unite to 1000, with a Table of the Right Ascension and Declination of the Sun: and certain principal Stars that are most in use.

Whereunto is added the farther use of the forenamed Fables in Questions that concern Navigation, Astronomic and Geographie.

By Richard Norwood, Reader of the MATHEMATICKS.

LONDON,

Printed by R. and W. Leybourn for G. Hirland's and are to be fold at his thop at Magnill Church-corner. 1699.



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Norwood Epitomie,

Being the Application of the Doctrine of Triani-



intent was here to have annexed a Treatife of Navigation, and especially of such Points therein, as have reference to the whole Dollrine of plain and Spherical Trangles; But I have here showed the resolution of all useful Problemes, touching the two principal kindes of Sayling by right-

lined Triangles,

Questions of Sayling by the plain or ordinary Sea

Although the ground of the Projection of the ordinary Sea-Chart being falle, (as supposing the Earth and Sea to be a plain Superficies) and so the conclusions thence derived mist also for the most part be erroneous; yet because it is most caste; and much used, and the errours in small distances not se evident, we will not wholly neglect it.

Quest. 1.

Sayling 100 leagues upon the fixth Rumbe; bow mixels (hall I alter my Parallel or Latitude?

Note. The angle that any Point of the Compasse makes with the Meridian, we call the Rumbe i but the angle that it makes with any Parallel, we call the complement of the Rumb.

And for a smith as to every point of the Compasse there and swers it deg. 17 min. therefore the fixth Rumb from the Metidian (namely, Enel Esel Sign or way) makes an ati-

2 4

Problemes of Sayling

gle therewith of 67 deg. 36 mins whole complement 22 deg. 30 min. is the angle of the same Rumb with every Parallel.

Now admit I fail from D to A, East North-east 100 leagues, I demand the difference of Latitude B De



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By the third Case of plain Triangles.

As Radius.

To the distance run,

So fine complem the Rumb, s A 22 deg. 30 min.

To the difference of Latitude, B B 38.2 leagues.

1, 78284

In like manner you may finde the difference of Latitude, for any diffance run upon any other point of the Compalle.

2 Sailing 100 leagues upon the fixth Rumb: how far am I departed from the Meridian of the place from which I came.

That is by the fame things given as before, I demand A B.

By the third Cafe of plain Triangles.

As Radius

To the distance run,

A B, 100 legues,

2,00000

So is the fine of the Rumb, & D 67 deg. 30 min.

9, 96562.

To the departure from the Merid, A B, 92 1 leagues, 1,96562

3 Sailing upon the fixth Rumb till I alter my Latitude one degree, I demand how far I have failed?

As failing from D to A, East Northeast, till the difference of Latitude D B be to leagues, I demand the distance run A D.

SAJ

by the plain Sea-Chart.

Say by the second Case of plain Triangles.

As fine complement the rumb, s A 22 d. 30 min, co.ar. 0,41716

To the difference of Latitude DB 20 leagues, 1,30103

So Is Radius

To the diffance run AD 52 1 leagues

1,71819

The like question might be moved by the departure from the Meridian given,

4. Sailing upon the fixth Rumb, till I have altered my Latitude one degree: how much am I departed from my first Meridian?

As failing from D to A, East North-east, till the difference of Latitude D B be 20 leagues, I demand A B, my departure from the Meridian, (as for example in the former type?)

By the first Case of plain Triangles.

As Radius

To the difference of Latitude, D B 20 leagues,
So is the tangent of the rumb, t D 67 deg. 30 min.

To the departure from the Merid, A B 38. leag.

1, 30103

In like manner by the departure from the Meridian given, you might finde the difference of Latitude.

5. Sailing upon some Rumb, between the North and the East 52% leagues, and finding that I have altered my Latitude one dogree: I demand upon what point I have sailed?

As if I fail from D to A, (being fome Rumb between the East and North) 12 13 leagues; and then finde the difference of Latitude D B, to be 20 leagues; I demand the angle A D B.

Say by the fixth Cafe. .

As the distance run, D A 52-1 leagues, co. cr. 8, 28191

A 3

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Problemes of Sayling

So is the difference of Latitude D B 2 leagues,

9,30103

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To fine complement the Rumb, s A, 22 deg. 30 min, 9,58244
Whole complement D, 67 deg. 30 min, is the lixth Point
from the Meridian, namely, East Northeast. Here we negle &
forme part of a minute (as in these things not to be regarded)
and so in other places.

6. Sayling upon some Rumb between the North and the East 524 leagues, and finding that I have altered my Latitude one degree: I would know my departure from my sirst Meridian?

By the feventh Cafe.

To the distance run, adde the difference of Latitude, and alfo substract it from the same, noting the Sum and Remainder, Then adde together the Logarithmes of this Sum and Remainder, and half that Total is the Logarithme of the distance from the first Meridian.

Distance run D A, 52-1 leag. Summe 72-1 leag. 1,81884
Differ of latid. D B, 20 leag. Remain.32-1 leag. 1,50853

Departure from the Meridian AB, 48 1 leagues. 1,68368

The fame may be otherwise found by the same case.

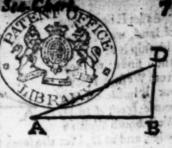
And in like fore might the difference of Latitude be found, the departure from the Meridian being known.

7. The distance of the Meridians of two places, and the difference of the Latitudes of the same places being groon; to finde the Rumb and distance?

As let Are present the Lizard in the west part of England, and AB the Parallel thereof, and let Drepresent St. Maries spand being one of the Azores, QB, the Meridian thereof.

by the plain Sea

Then is A B the diftance of the Lizard, from the Meridian of St. Maries, which let be 222 leagues; and A B, the distance of their parallels, or difference of their latitudes 256 leagues, I demand the rumbe, namely, the angle at D, and the distance in the rumbe A D.



First, for the rumbe, say by the fourth ease.

As the difference of Latitude DB 3 46 leagues, co.er. 7,59176

Is in proportion to Radius :

So is the distance of the meridian A B, 172 leagues, To the rangent of the rumber D, 46 deg. 44 min. Which is the fourth Rumbe from the meridian, and I deg. 44 min, more; which thews the course from St. Maries to the Lizard, to be Northeaft, 1 deg. 44 min. Eafterly : or from the Lizard to St. Maries Southwest, I deg. 44 min, Westerly, And thus it should be by the plain Chart.

Secondly, for the distance AD; say by the 2 cafe.

As the fine of the rumbe, 5 D 46 deg. 44. min. co. ar. 0, 13776 To the diffance of the meridians A B, 372 leagues, 2, 43457 So is the Radius

To the distance of the places A D, 3731 leagues, 2, 1713

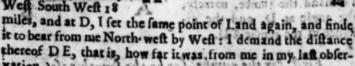
And fuch should be the diffance by the plain Chart.

8. Sayling away W S W, I fee a point of Land, which I fet, and finde to bear from me West by North, and having fayled fix leagues further, I finde it bears from me Northwest by West : I wenicknow bow far it is distant.

Problemes of Say

on the Medica

As let E be a point of land, which when the thip is at A, I fet and finde to bear from Weft by North, but I hold on my course from A to D, West South West 18



First, I consider between A E, the West by North, and A D. the West South-west, is three Points of the Compalle, that is 3 deg. 45 min, which is the angle at A : also between E A, the East by South, and E D the South-east by East are two Points, that is, 42 deg. 30 min.

Therefore by the 8th Cale of plain triangles.

As fine the angle at the point feen, s E 22 d. 30 m co.ar. 0,4176 Is to the diffance run, A D 18 miles, 1,25527 So fine the angle at the first

s A 33 deg. 45 min. 9,74474 place of observation,

Tothe diftance of the paint fcen, E D 38-1 miles,

Whereby it appears, that the distance of the point seen from the place of your last observation is 26 miles, and a furlong, In like manner you may find the distance thereof from the place of

your first observation A.

Admit the confe from the Lizard to St. Maries be S.W the distance 37? | leagues. A certain ship bound from the Lizard to St. Maries, freers awayss W, and afterwards w by s, and fo sometimes upon one of thefe points, sometimes upon the other, till the arrives at St. Maries, now I demand how many leagues the bath failed upon one of these points, and how many upon the

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be 1 Let A be the Lizard, E. St. Maries, and feeing so we, being om South-west two points, makes an angle therewish of as g. 30 min, which let be A.; also west by south makes with a langle of 33 deg. 45 min. which let be E, also South s w, akes with west by south an angle of 56 deg. 15 min which let the the complement of D to 180 degrees.

	Therefore by the 8 Cafe.
the fine of	D, 56 deg. 15 min. com. ar. 0, 08015
is the line of	(en AE, 3732 leagues. 2,55113 E, 33 deg. 45 min. 7, 74474
0 0 0 0	A D, 1482 leagues. 2,3960a
Which is the di	Cance run upon the Weft by South-points.

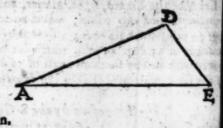
Again,

the fine of D, 36 deg. 15 min. com. cr. 0,08015
the diffance given: A E, 373 1 leagues 2,57113
is the fine of A, 2 deg. 30 min. 0,58284
the way run

E D, 171 4 leagues, 2,25412
Which is the diffance run upon the West by South Points.

degrees, fals into the hands of Pirats, who among to other things takes away his Sea-compasse. But when he is gotten clear, he sails away as directly as he can, and after two dayes meets with a Man of War, who also had been the day before in the Latitude of 43 deg, and had sailed thence SE by S37 leagues: He destrous to finde those Pirats, the Merchant-man tels them, he left them lying to and fro where they took him, and he had sailed since at least 64 leagues, between the South and West: what course shall the Man of War shape to sinde these Pirats?

Let A E be the Parallel of 43 deg.
D the place where the ships meet: then is there given A D 64 leagues, E G 37 leagues, and the angle D E A five points of 56 deg. 15 min.



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Therefore, by the 9 Cafe of plain triangles,

As the diffance runne by the Merchant man, AD, 64 leagues, co. ar. 8, 19381

To fine the angle given, sE, 56 deg. 15 min, 9,91985

So is the diffance runne ED, 37 leagues. 1, 56814

To fine an angle required, sA, 28 deg. 44. 9, 68187

That is West Southwest, 6 deg. 14 min. southerly, and shath the Merchant sailed; therefore to return to the same place he must shape his course East Northeast, 6 deg. 14 min. Northerly.

It There are two Ports lying NE, and NW, one of another, a ship sails from the westermost of these Ports East Southeast 47 leagues, another departing from the Eastermost Port sails 66 leagues, and the weets with the former, what course hath this second ship kept, and how say are those Ports asunder?

Let the Northeast Port be A, the Southeast E, and the place where these ships meet at D. And forasmuch as from E to A the course is Northeast, and from E to D East Southeast, there fore the angle at E, \$67 deg. 30 min, and the side ED, 4 leagues, and AD 66 leagues.

There

by the plain Sea-Chart.

Therefore by the 9 case of plain triangles.

And feering from A to E, the courle is fouth-AD, 66 leagues, co. ar. 8, 18046 weft, and from A to D o fine E, 67 deg. 30 min. 9, 96561 41 d. o8 m. more fou. o fine A, 41 deg. 08 min. 9, 81817 therly ; therefore the course from A to D, is South 3 deg. 52 min. Westerly. Secondly, for the diftance of thefe Posts A E, the angle at

being 41 deg. of min. and the angle at E, 67 deg. 30 min, e Sum of them both is 108 deg. 38 min, which substracted om 180 deg. leaves the angle at D, 71 deg. 32 min.

Therefore by the 8 case of plain triangles. fine E, 67 deg. 30 min. co. ar. 0, 03439 1,81974' ftance betweene o A D, 66 leagues, o fine D, 71 deg. 32. min. 9, 97682 the two Ports is o A E, 67 _1 leagues, 1, 83091 67 1 leagues.

Some may think it requifire, that the latter part of this Proeme should have been a diffinct cafe in plain Triangles; but caufe the fame things are here given as in the 9 Cafe, and e operation manifest by the Eighth & Ninth, I thought it not ccellary to make another Cafe of it,

2. Consting along towards the evening, I have fight of a Cape or Headland, beyond which I defire to feer in the next morning it bears from me SSE, and is distant by estimation II leagues, but I steer away South, till two of the clock in the morning about 12 leagues; and then would know how the Cape bears from me, and how far is is off?

As admir A, I offerve the Cape D to bear from the South outheast 11 leagues; but I steer away South, to E 12 leagues. have then A D 11 leagues, A E 12 leagues, the angle at A a deg. 30 min, (as for example) in the fore-going type:

First.

First, then for the angle at E by the 10 Case.

AAE + AD 23 leagues, com. at.

To AE — AD, or league,
Sot 1 E + D) t 78 deg. 45. min.

Totang. an angle F, 12 deg. 20 min.

Which subtracted E, 66 deg. 25 min.

In working this example: because the angle given A, is a deg. 30 min. therefore the other two E and B, are 150 deg. 30 min. (by the first Lemma of the third Chapter of plain triangles) the half whereof is 78 deg, 45 min. Whereby we find a angle F, 12 deg. 20 min. which subtracted from 78 deg. 45 min there remains the angle at E, 66 deg. 25 min. Wherefore see ing E A is a North line, E D is almost East North-east, name ly, East North-east 1 deg. 5 min. Northerly.

As fine the angle found, tE 66 d, 25 m, co. ar. 9,0378
To the diffance in the evening; A D 11 leagues; 1,0413
So the fine of the angle given, 5 A 22 d, 3 0 min, 9,5028

To the distance in the morning, E D 4 leagues, office That is above 4 leagues and a half distant.

13. Admit I sail away from a certain port S. S. W. 50 leagues, and thence again W. by S. 30 leagues, upon what point have I made my way good, and how far am I come from a port,?

As admit I fail from A to D South Southwest 50 leagues, and from D to E, West by South 30 leagues, there is required the course A, or E, and AE.

From the South Southwest to the West by South, are 5 points that is 56 deg. 15 min, which is the complement of the angle at D, to 180 deg. So that the angle at D is 123 deg. 45 min Wherefore here are given the two sides AD and ED, and their contained angle at D; Therefore

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Wherefore seeing the course from A to D, is south southwester ecourse from A to E, is 20 deg. 31 min. more westerly that southwest, 2 deg. southerly; so that I have made my way and southwest two deg. southerly.

Secondly for the distance upon that Point.

finet he angle found, s A 20 deg. 31 min. 60. ar. 0, 45534
his opposite side given, E D, 30 leagues, 8, 47712
sine the angle given, s D, 56 deg. 15 min. 9, 91985
o his opposite side required, A E, 71, 1 leagues, 1, 85231

Which is the distance from that Port.

There are two Ports in one and the same Parallels or Latitude, distant 64 leagues, and shere is a certain Island more southerly, distant from the Eastermost of these ports 47 leagues, and from the Westermost of them 34 leagues: I demand the course from the Eastermost port to that Island?

Let the Easteroff port be A, the effermost E, both one and the same rallel A E, distant leagues, and let e Island be D, dint from A, 47

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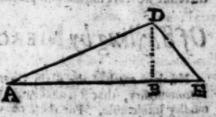
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gues, and from E 34 leagues; there is tequired, the course m A to D, that is, the angle at A, or the complement reof:

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By the 12 ca	fe of plain Triangles.	
To the fum of A D, and E So is the difference of A D	D. Br leagues,	1,17
To a certain line	A, 16.414	1,4
which added to A E, is The half whereof is	AB, 40-117	9116
THE PROPERTY OF THE PROPERTY OF THE PARTY OF	1000	1

Then by the 6	cafe of plain	Triangles.	rij
Then by the 6 As AD 47 leagues; To Radius;	compl. arith.	Walanasa	8,
So A B, 40 217	· 清楚· 美国	and property	İ

To se A, s 58 deg. 52 min.

That is fouthwest and by west 2 deg; 36 min. westerly, whis the course from the Eastermost port to the Island.

to. A ship sails from one Port to a second SSE leagues, and from thence to a third 54 leagues, a from thut third to the first 85 leagues: I demand course from the second Port to the third, and for the third to the sirst?

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This and the like are to be wrought as the former, whitherefore we leave to your own practice.

Of Sayling by MERCATORS Cha

And thus much of the plain Chart, which as it hath commodity, that it is most easie; so it hath some discommodity intolerable. For there be very few places that therein be expressed, according to the true Situation and stance one from another. Which as it is a great impediment the practice of Navigation; so it hath caused much confidence on the confidence of Navigation; so it hath caused much confidence of Navigation;

in the Geographical, and Hydrographical descriptions of aces; infomuch as there are fcarce extant any Deferiptions the world or the parts thereof that are not peffered with no ious Errors: the greatest part of them hence arifing It is ined ancient, and till the Sea-Compafie was known; it was e apreft Chart that could be ufed; because till then, men ere Coafters, and for the most part returned back the same y they went forth, and it may fill ferve without any great rour in such places as are neer the Equinoctial; also in any other places for short Voyages, and even for long Voyes, provided that a man be fure to return the same way at he went, or neer the same. Otherwise, if he truft to the ain Chart, he will be most groffely deceived many times in s course a Point or two of his Compasse, and in his Diftance any hundred miles. But in this Sea-Chart called Mercators lor any parts of the World may be fet down, according to cir Longitudes, Latitudes, Courfes and Diffances, as truly and more conveniently for the Marriners use, than upon the lobe it felf: So that it will truly thew the direction and iffance from place to place, which way foever a man goes of turns,

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Some men will fay, that in divers reckonings by Mercators hart, they have found as little certainty, as by the plain hart. Which I deny not, but the reason is, because there are wor no Charts made directly according to this Projection. will be faid, Yes, there be many; and that a man may have them whenfover he will befpeak them, I grant a man may have those which are so called, but that which is such inted, must not onely have the Meridians, Parallels, and Rumbs rawn according to this Projection; but the Sea-coafts must einserted by the like Art and mean, as they have formerly cen inferred into the common Sea-Chart : otherwise, he that all transfer places out of the common Sea-Chart into Mertiers, without due knowledge and respect upon what occasion, for what reason they were so placed in the common Seahart; he shall transfer the errours of the one into the other. nd that sometimes with increase. Wherefore it requires

more than an ordinary judgement; to draw a Plot directly cording to this Projection, for any place or places; an must further know, or be made acquainted with the recken of Mariners frequencing those places; and that truly whe with allowance or without, and whether agreeing or difating with their plots, and fo comparing one thing with ther; and weighing all in the balance of a good judgement. shall be able to do it. The ground of the Projection of akinde of Charts was pointed at by Ptolomy, many hund - years fince; and according to that ground, Mercator did late years fet forth an univerfal Map of the World : who supon these have been called Mercators Charts, But the how to describe them was first raught by that learned Navi cour of our times, Mr. Edward wright, in his Book of Correction of Errours in Navigation. From whence alfo grounds and reasons of these ensuing Problemes are to taken: and if we would be as grateful to our own County men as to Strangers, I fee not but we may aferibe as much him in this, as to any other man; Now that which he h shewed to perform by the Chart it felf, we will here the work by the doctrine of plain Triangles, using the help the Table of Logarithme Tangents, beginning at 45 deg oo minutes; and so increasing upwards, accounting every min. to be one degree of the Meridian line, as the Tangen 47 deg. 30 min, to be one degree of the Meridian line, as Tangent of 46 deg. oo min, to be two degrees oo minutes the Meridian line, and fo forwards, fo that every minute is minutes of the Meridian line, and although that thefe be the fame Meridional parts that are in the doctrine of Tri gles, yet they proceed in the fante proportion as the See added rogether do; and shall produce the same folution in very Probleme of fayling by Mercators Chart; as the other bles do ; but because in this small Volume we have bur Chiliad of 1000 Logarubmes, I thall work by leagues, and by miles, or minutes; yet I shall resolve the same Proble of fayling by Mercators (bart; that are fet down in the firing of Triangles,

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by Mercators Chart.

Prob. 1. To finde by these Tables what Meridional Leagues are contained in any difference of Latisade.

TO perform this Probleme, we must take half of each of the given Latitudes, and to each half adde 45 degrees of min. and the Sun shall shew us the Degrees and Minutes, where we shall find the Tangent to give us the Meridional leagues from the Equinoctial to each latitude, but it shall suffice us to subtract the lesser Tangent out of the greater, and to multiply the difference or remainder by 10, and to divide that Product by 16, and the quotient shall be the meridional leagues contained between the two Latitudes.

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As let one Latitude be so deg. oo min, the other 32 deg. 35 min. The half of 50 deg. oo min. is a5 deg. oo min. to which adde 45 deg. oo min. the Sam is 50 d. oo min. which are 43893.

The half of 32 deg. 35 min. is 16 deg. 17 min. and an half, o which adde 45 deg. 00 min. the Sum is 16 deg. 17 min. 32 where we must look the equal parts, viz. at the Tangent of 1 deg. 17 min. and a half, which are 26147. Which subtract rum 43893, and the remainder is 17746, which multiplied by 0, is 177460, and that divided by 376, the quotient is 472 eagues neerest, which are the meridional leagues contained etween the two Latitudes, and the like is to be done for all atkndes whatsoever.

Now although this way doth a little differ; from that way one by meridional parts; yer the difference is of no validity breed any confiderable errour in the course; and so by configuence not in the diffance; and therefore I defire a favourage to confirmation of it.

103. 2. The Latitudes and difference of Longitude of two places given: to find the rumb and distance.

O the intent the application may be the more evident, we will give examples of two places expressed in the Chart.

As admit the latitude of the Lizard to be 30 deg, comin, the titude of Summer-Hands, sometimes called the armudas 32

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deg. 25 min. and the difference of Longitude to be 70 deg. min, the Summer Hands being so much to the westward of a Lizard: I demand the course, and the difference from the or to the other.

As in this right angled Triangle AD B. Let A represent the Lizard, and AB the Parallel there sof, D Summer-Hands, and DB the Meridian thereof.

Then is there given DB, the difference of Latitude 17 d. 35 m. and AB the difference of Longi-

tude 70 d. 00 m. whereby the angles and Hypothenusal should be found by the fourth and second Cases of plain Triangles. But because in this kinde of Projection, the degrees of Longitude and Latitude are not equal; (except in places near the Equinoctial) the degrees of Latitude at every Parallel, exceeding the deg. of longitude, in such proportion as the Equinoctial exceeds that Parallel; therefore these differences of Longitude and Latitude, must first be expressed by some one common measure. And for that purpose serves the Table of Tangents, which sheweth how many equal leagues are from the Equinoctials every degree of Latitude: namely, of such equal leagues are degree of Longitude doth contein 20.

Wherefore multiplying 70 deg. on min. the difference of Longitude by 20. I have 140 for the Me idional leagues conteined in the difference of Longitude; also (by the last Probleme) I find the Meridional leagues conteined in the difference or Latitude to be 472, so that DB is 472 leagues, an

A B 1400 fuch leagues,

Therefore by the 4 Case of plain triangles.

As the differ, of latit, in leagues D B 472 co. arith.

73266

Is in proportion to Radius:

So is the differ, of Longitude in leagues A B 1400, 31461

To the tangent of the rumb, t D 71 deg, 21 min. 10,4751
Which sheweth the course from the Sammer-Hands to the Li

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zard to the east northeast 3 deg. 52 min.easterly, or, from the L zard to the Summer-Hands, W S W, 3 deg. 52 min. wefferly.

Secondly, for the destance in the Rumb.

Reduce the difference of Latitude into leagues (multiplying the degrees by 20) and to the Product adding one third, or the minutes.

Then by the 2 Case of plain triangles.

As fine compl. the Rumb s A, 18 deg. 39 min. co. ar. To the difference of Latitude D B, 352 leagues.

To the distance AD, 1100 leagues

And this is the diffance measured in the Rumb; there isa nearer cut between these two places, whereof we shall speak hereafter in Great Circle fayling; which is by Segments of feveral Rumbs often changing the course; but here whenfoever we speak of the distance of two places, we mean their distance measured in one Rumb.

Prob. 3. The Latitude of two places, and their distance given: to finde the Rumb, and difference of

Longitude.

A Dmit I fail from the Lizard, being in the Latitude of to degrees, upon some point to the Westward 1100 leagues, and then finde my felf in the Latitude of 32 deg. 15 min, I would knew upon what point I have made my way good; and how much I have altered my Longitude ?

The difference of Laritude DB, is 17 deg. 35 min. which reduced into leagues, is 352 leagues. (As in the foregoing type.)

As the distance failed A D, 1100 leagues, co. ar. Is in proportion to Radius:

So is the difference of latitude DB, 3 12 leagues

154654 To fine complement the Rumbs A, 18 deg. 39 min. 9,50486

That is west fouthwest 3 deg. 51 min. Westerly.

Secondly, for the difference of Longitude.

Finde by the first Probleme what Meridional leagues are coneined in the difference of latitude, which are here 472, then ay ;

As Radius

To the difference of latitude in leagues, DB, 471, So is the tangent of the rumb, t D, 71 deg. 21 min.

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To the difference of longitude in leagues, A B, 1400

3 14611 Which leagues reduced into degrees, dividing them by so, the quotient is 70 deg. the difference of Longitude required.

Prob. 4. By the Rumbe, and Latitudes of two places given, to finde their distance, and difference of Low gitude.

A Dmit I fail from the Lizard, being in the Latitude of se deg. Weft Southweft 3 deg. 53 min. Wefterly, till I find m felf in the Latitude of 32 deg. 25 min: I demand how far have failed, and how much I have altered my Longitude?

The diffance is found as in the latter part of the fecond Probleme thus. The difference of Latitude converted into league

is 352. Say then,

As fine complem. the rumb, t A 18 deg. 39, min. 0, 4951 To the difference of Latitude DB 312 leagues. 24160

So is Radius.

To the diffance AD, 1100 leagues, 3 0416 And so much is the distance : the difference of Longitud

may be found as in the latter part of the 3 Probleme, faying,

As Radius, to the difference of Latitude in meridions leagues; so is the tangent of the Rumb, to the difference Longitude in leagues.

Prob. 5. By the difference of Longitude, Rumb, an one Latitude: to finde the other Latitude and th distance?

A Dmir I fail from the Lizard, being in the Latitude of deg. West Southwest ; deg. Westerly, till I have altered a I ongitude 75 deg. how much have I laid the Pole, and ho for am I from the Lizard ?

Redu

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Reduce the difference of Longitude into leagues by 20, and

o it makes 1400; then fay,

As the rangent of the rumbs D 71 d. 21 m. co. er. 9,52829 To the difference of Longitude in leagues, AB, 1400. 314162

ois Radius,

my

To the difference of Latitude in leagues, D B, 472. 247441. Which 472 leagues multiplied by 376, and the Product 177472, and that divide by 10, and the quotient is 17747. Which I subtract from the equal pasts of the Latitude of 30 leg oo min, which we found by the Probleme to be at the angent of 70 deg. 00 min, viz, 43893, and the remainder is 6146, which I seek in the tangents, and sinde it the tangent of 61 deg. 17 min, and a half, from which I subtract 45 leg. 00 min. and the remainder is 16 deg. 17 min, and a half, which being doubled is 32 deg. 35 min. The Latitude of the lace to which I am come,

Secondly, for the Distance.

Having aiready the Rumb, and difference of Latitude, it may be found as in the second and fourth Problemes; saying, As sine compl, the rumb, s A 18 d. 39 m. co. ar. 0,49514

othe difference of Latitude, D B 352 leagues,

o is Radius,
o the distance,
A D 1100 leagues, 304168

rob. 6. By the Rumb, the Distance, and one Latitude given: to find the other Latitude, and the difference of Longitude?

Dmit I fail West Southwest 3 deg. 71 min. Westerly, 1100 leagues, and then finde my self in the Latitude of 32 deg. 5 min. I demand the Latitude of the place from which I me, and the difference of Longitude between that and this?

B3 First

First, for the difference of Latitude.

As Radius

To the difference of latitude, DB, 252 leagues, 25464

Which 352 leagues converted into deg. is 17 deg. 35 min, the difference of latitude required; which added to 32 deg. 15 min, makes 50 deg. co min, the latitude of the fift place.

The difference of Longitude is found as before in the third

Probleme; faying,

As Radius to the differ, in Latitude in Meridional leagues, fo is the rangent of the rumb, to the difference of Longitude in leagues.

And thus the difference of Longitude will be found as in this

example to be 70 deg. 00 min,

If at any time you defire to convert this difference of Longgude found in any Parallel into leagues, you may do it after the Example.

7. Admit there be two places both in the Parallel of 30 degrees, which differ in Longitude 70 deg. 00 min. I demand the distance of these two places?

First, it is to be understood that the leagues of Longitude in any Parallel, are not in proportion to the distance in leagues, is the Equinoctial is to that Parallel; or as the semidiameter of the one, is to the semidiameter of the other.

That is,

As Radius is in proportion,

To fine complethe latetude, sego deg. oo min. 9808 of 50 is difference of longitude, 1480 leagues, 314615

To the diffance in that parallel, 900 leagues, 295415

North	South	D.	M.	South	North
N by E	ShyE	02 05 08 11	49 38 26	SbyW	N byW
NNE	SSE	14 16 19 22	94 53 41 30	ssw	N NW
NE by N	SEbyS	28 30 33	05	SWby S	NWBN
NE	SE	36 39 42 45	34 23 11 00	sw	NW
NE by E	SEbyE	47 50 53 56	49 37 26 15	SW <i>b</i> W	NWbW
ENE	ESE	59 61 64 67	04 52 41 39	wsw	WNW
1	-	70	19	A 1	

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Propositions in Astronomy and Navigation, performed by the Tables of Artisticial Sines, Tan-

Prop. 1. The Suns place being known, to finde his De-

A S Radius 10, the Sine of greatest declination, 23 dec.
30 min. So the Sine of the Suns diffance from the next
Equinoctial point, to the fine of his present declination.
So the Sun being in 20 deg. 36 minutes of Taurm, his declination will be found to be 17 deg. 58 min. almost,

Prop. 2. The Suns declination being given, to finde his place in the Zodiack.

A S the fine of the greatest declination is to Radius, so is the present declination to the present place.

So the Sun having 17 deg. 58 min. of North declination, his place will be found to be in 20 d. 36 m. of Taurus, or 9 d. 24 m.

Prop. 3. The Latitude of the place, and declination of the Sun given, to finde his Amplitude.

A S the Co-fine of the Latitude is to Radius, so the fine of the declination, to the fine of the amplitude.

So the Sun having 11 d. 43 m, of North ceclination, his amplitude will be found to be 19 d. 15 m. North a fr: For the is general, that if the Sun be in Northern Signes, as in Aries, Laures, Genini, Cancer, Lee, Viga, he hath North declination,

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North amplitude. And if in Southern Signes, as in Libra, pio, Sagitarius, Capricorn, Pifces, or Aquarius, South deation and South amplitude.

op. 4. The Suns declination and amplitude given, to finde the beight of the Pole.

the fine of the amplitude, to the fine of the declination's o Radius to the Co-fine of the latitude, so the declination being 13 deg. 43 min. and the amplitude deg. 7 min. the height of the Equinodial will be found to 8 deg. 19 min, whole complement 51 deg. 41 min, is the

hi of the Pole.

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pp. 5. The latitude of the place, and declination of be Sun given, to finde his right ascension.

cli Radius to the rangent of the Suns diffance from the next Equinocial point, fo isthe Co-fine of the greatest declinato the rangent of the right afcenfion.

o the Sun being in 10 deg. of Taurus (that is 50 deg. from next Equinoctial point Aries) his right ascension will be

nd to be 47 deg. 32 min.

op. 6. The latitude of the place, and declination of the Sun given, to finde the ascensional difference, which is the time of the Sunsrifing or fetting.

of Sthe Co-tangent of the latitude, to the rangent of the declination; fo is Radius to the fine of the alcentional difnce.

o the latitude being 51 deg. 30 min. North, and the declitop 20 deg. the difference of seconion will be found to be leg. 14 min. which reduced into time (by allowing 15 deg. one hour, and four minutes of time for one-degree) doth ies, cone hour, and almost 49 min. for the difference between Suns tising or fetting, before or atter the hour of fix, accor-

ding

ding to the time of the year, that is, when the Sun is in thern fignes the Sun rifes before, and fets after fix, and in thern fignes he rifes after, and fets before fix,

Prop. 7. The amplitude, and difference of ascensia

A 5 the fine of the ascensional difference is to the Co-sine of the de nation.

So the ascentional difference being 27 deg. 34 min. the Sun rifes at 4 a clock and 10 min. which converted i degrees makes 62 deg. 30 min., and the amplitude 33 i 38, min.

The declination will be found to be ao deg. 10 min.

Prop. 8. The latitude and declination given, to fi

The Sun have North declination, adde the complement the latitude to the declination, the Sum is the Meridian titude: But if the Sun have South declination, subtract declination from the complement of the latitude, the residuathe Meridian altitude.

So the latitude being \$1 deg. 46 min. the complement the of is 38 deg. 20 min. and let the declination be 23 deg. 30 Morth: Adde 38 deg. 20 min. to 23 deg. 30 min. the Sur 61 deg. 50 min. the Meridian altitude. But if the declination had been 23 deg. 30 min. South, subtract 23 deg. 30 min. for 38 deg. 20 min. the remain would be 14 deg. 50 min. for Meridian altitude.

Prop. 9. The latitude and declination known, to fi the beight of the Sun at any hour.

As the Co-fine of the hour from the Meridian, is to Radi

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As le la

ine h fii he in the latitude of 51 deg. 30 min. and one hour from the dian, (which is either 11 or 1 a clock) this fourth atk will and to be 52 deg. 28 min.

en consider the declination of the Sun, and the hour pro, if the latitude and declination be alike, both North as
us, and the hour proposed be between noon and fix, take
eclination out of the fourth ark, the remainder shall be a
ark; —— But if the hour fall between fix and midnight,
e latitude and declination be unlike (one North, the other
h) adde the declination to the fourth ark, and the Sum shall
fith ark, if the Sun exceed a odeg, take it from 130 deg,
emain is the fifth ark. The fifth ark being found,

the fine of the fourth ark, to the fine of the latitude; for of the fifth ark, to the fine of the altitude. the latitude being 51 deg. 30 min. North, the declination 30 m. North; If it be required to finde the Suns aktitude at the morning, you shall finde it to be 27 deg. 17 min.

p. 10. The latitude of the place, the declination of he Sun, and the altitude of the Sun given, to finde is Azimuch.

nsider whether the Suns declination be North or South, so ave you his distance from the Pole, — Adde the Suns nee from the Pole, the complement of your latitude, and complement of your altitude all three into one sun, and half that sum, subtract the distance of the Sun from the and note the difference;

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As Radius, to the Co-fine of the altitude, fo the Co-fine

As this fourth line is to the fine of the half sum; so is sine of the difference to a seventh sine; unto which sent sine, if you adde the sine of 90 deg, half that sum will he sine of an ark, whose complement being doubled is

So if the latitude be 51 deg. 30 min. North, the decline 20 deg. South, and the altitude 12 deg. the Azimuth from North part of the Meridian will be found to be 140 deg.

Prop. 11. The latitude given, to finde how many nutes, or miles of the Equinottial, make a de of longitude in any Parallel.

S the fine of 90 deg. is to the fine of 60 deg, fo the Co of the latitude, to the miles answerable to a degree in latitude defired.

So in the laritude of 51 deg. 40 min. 37 miles will answone degree in the longitude.

Prop. 12. The course and distance given, to find

As the fine of 90 deg. to the Logarithm of the miles run the fine of the couries distance from East or West, to the ference of laritude.

So if the course be West S. W. (which is 22 deg. 30 m. is the West) the miles 225, the difference of latitude will found to be 1 deg. 26 min.

Prop. 13: The course and distance given, to finde difference of longitude.

A 5 the fine of 90 deg, is to the miles run, fo is the fine of

from your first Meridian.

So if the course be N. W. by W. (which is 33 deg. 45 minds the North) the miles run 180, the number of miles which are departed from the Meridian will be found to be 100, which you divide by the number of miles answerable to a degree longitude in the latitude, you then finde your self to be; the questions gives you the degrees and minutes of difference of lands.

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14. The distance and departure from the Merian given, to finde the Courfe.

he miles run, to the fine of 90, fo the departure from the eridian, to the fine of your course from North or South. if the departure from the Mexidian be 75 miles, in running miles, the course fleered is 3 od. which is S. W. by S. Son-

b. 15. The latitude of the place, the declination ed altitude of the Sun given, to finde the bour of be day.

de the Suns distance from the Pole, the complement of the titude, and the complement of the altitude into one Sum, from half the fum fuberact the complement of the altitude, ng the difference;

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As Radius, to the fine of the Suns distance from the Pole; e Co-fine of the latitude, to a fourth fine, . As this fourth fine, to the fine of the half furn, fo the fine he difference, to a feventh fine ; unto which feventh fine, if adde the fine of 90 deg. half that fum will be the fine of rk, whose complement doubled and converted into time; Is hour required.

o if the latitude be 51 deg. 30 min. the declination 20 deg. thward, and the altitude 12 deg, the time will be found to

hours 24 min, almost.

Propositions Geographical.

48

The Use of the following Tables Questions that concern Geograph

Hough there be diverse wayes to finde the diffa places, viz. by the Globe, by Maps, Geometrical Yet the most exact of all other is by Trigonometry, way we will here lay down in three Propositions.

Prop. I. Two places differing onely in the Latitude; to finde their distance.

In this Proposition there are two varieties, viz.

Meridian, and both of them on one fide of the Asquing you must subtract the lesser Latitude from the greater, as remainder converted into miles (by allowing 60 miles to gree) will be the distance required.

Example. Vicentia and Augusta lie under one and the Meridian, and both on the North side of the Acquind Vicentia having 44 d. 55. latitude, and Augusta 47 d. 41 titude, the difference of latitude is 2 d, 47.5 which consists omiles by multiplying it by 6., and adding thereto the ininutes, maketh 167 miles, and that is their distance.

a If one place he on the North, and the other on the fide of the Aquinoctial (yet both under the same Meridia must then adde both the latitudes together, and the sua verted into miles, will give their distance.

Prop. II. Two places differing onely in Longitude, being given; to findetheir diffarce.

In this P. epofition also there are two varieties.

then the difference of their longitudes reduced into miles lowing 60 miles to a degree) giveth the distance of the prequired.

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Propositions Geographical.

izample. It is required to know the distance of the Island natra from the Island S. Thoma, (both lying under the inoctial) the Island Samatra, hath long. 137 d. 10', and the nd of S. Thoma hath long. 33 d, 16', therefore the differe of their longitude is 104 d, which multiplied by 60, mana 12640 miles, whichis the distance of the said places.

But if the two places propounded differencely in longie, and lie not under the Aquinoctial, but under some other amediate Parallel, between the Aquinoctial and one of the es, then to finde their distance, the proportion will be.

As the Radius, or go deg. is to the Co-line of the common

latitude;

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So is the fine of half the difference of longitude, to the fine

of half their distance.

cample. The Cities of Composella and Constantinople have one latitude, viz. 43 deg. o min. but differ in longitude legrees, 15 minutes. The complement of their latitude is legrees, and the half longitude is 21 deg. 37 min. 30 sections; therefore the operation is thus to be framed.

the Radius or fine of go deg.

the Co-fine of the common latitude 47 de fine of the half difference of longigitude 21 d, 37 ', 30".

gitude 21 d, 37', 30".

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he fine of half their diftance

9,43053

fearch 15 d, 38', being doubled, giveth 31 d, 16', which

9,8641

erted into miles (as before is taught) giveth 1876, which e distance between the two places required.

III. Two places being given, which differ both in longitude and latitude, to finde their distance.

In this Proposition is contained three varieties.

If one place be under the Aquinoctial Circle, and the towards either Pole, then the proportion is, the Radius or fine of 90 degrees stothe Co-fine of the difference of longitude:

Is the Co-fine of the latitude given,

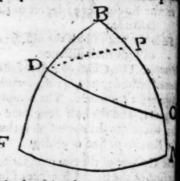
To the Co-line of their diffance required.

Exam les

Example. If it were required to finde the difference of Island of St. Thoma (which lieth directly under the Agaial, and hath longitude 38 deg.) and the City of La (which hath 51 d 3d latitude, and 20 d. longitude) the stance will be found to be 3222 miles.

2. If both the places propounded be without the Equation, and on the Northern or Southern fide thereof, the proportion must be wrought at two operations, and be there is some difficulty therein, we have added the following ure, which will make it perspicuous to the meanest expansion.

Let Drepresent London, whose latitude is FD 51 deg. 30 min. and longitude 20 degrees no minutes; and let Orepresent Jerusalem, whose latitude MO is \$1 degr. 40 min. and longitude 66 degre which being known, you have given (1) the side BD,



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the complement of the latitude of London, 38 deg. 30 min the fide BO, the complement of the latitude of Jerus din degrees, 20 min. (3) the angle DBO (whose measures the difference of longitude 46 deg. no min. and it is reconsidered by the base of the latitude of Jerus din the difference of longitude 46 deg. no min. and it is reconsidered by the latitude of London.

to made the nae D b. I hereto		153
I As the Radius BM go de	egrees, 10,	000
To the Co-fine of DBC) 44 deg. 9,1	1
So is the Tangent of DB	38 deg. 30' 9,	100
To the Tangent of B P	18 deg. 55" 957	
Which being substracted from	BO 58 deg. 20 min, t	her

maineth O P, 29 dog. 29 min. then fay

Prop	ostions Ge	ographical.		- 31
As the Co-fine of	BPFI	the Win	ide	37688
To the Co-fine	of PO 600	rde of at-	nece latit	90535
So is the Co-line				
To the Corline	Tycho, Ligi	attons of	119,83	35978
ofe complement is	38 deg. 5	which con	verted inte	miles
before is taught of	ecit 2331 mi	les and fuch i	s the difta	nce se-
If the two places	propounded	differ both	in longitu	de and
irude, and be both them towards the	North and	out the Equi	noctial, a	nd one
le, then the propor	tion is;		NE DEL	Tenta a
As the Radius Is	to the Co-fi	ne of the dif	terence of	longi-
is the Co-rangent	of one of the	latitudes , t	o the Tan	ext of
which being fuber	Aed our of	the other lan	rude ngly	1584
added thereto,	Say		200	1KU
a As the Co-fine	of the ark fo	und, is to the	he Co-fin	orthe
So is the Co-fine of	f the latitud	e firft taken,	to the Co	fine of
These are all the	varieties the	er can noffih	v handli	the boar
ppolition conternin	g the diftan	ce of places, a	and is the	ANOTH
y that can be inve	nted , provi	ded the longi	mde and I	atinude
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A Table shewing the Longitude and latitude of all the principal Cities and places in Europe, according to the ob-

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BRAIL Places	Latitude D M	Longitud D M
Cabilling and the Art Art Art	To a state of	1. A 200
Alexandria in Egypt	39 59	60 30
Amferdam was vario and plan, to	52 20 37 20	28 a
Antioch	37 39	70 II
Antwerp in Brahant 10 anil-0	51 T2	28 5
Aquilgrane	27 45	52 30
Auguka Vindel	37 42 48 22	35 45
Babylon	35 00	73 0
Barwick abunital ratio att to in a	55.50	19 50
Reidess in Plander	51 30	34 26
Brun wick	1 52 16	34 45
Brandenburg.	52 30	37 20
Calecute in India	II 20	111 4
Carlile	54 50	19 40
Canterbury	51 15	20 1
Cambridge manal advisables	52 17	20 30
Calice	150 30	20 20
Confrantinople	43 05	55 39
Dover Dublin	51 20	21 19
Damafcus	54 40	60 00
	33 00 56 26	69 00
Edinburgh in Scotland		57 49
rankford upon Morne	37 40 50 02	32 30
rankford upon Od.	52 20	38 45
lorence	143 10	35 00

The Manus of the Places.	D M	Longiande.
eneva	45 25	29 50
lamburg	53 42	34 15
lierufalem wo mis on the or	32 10	70 45
incolne had a second	53 00	20 30
NODNO	51 32	20 00
eiceller an ish yna . of s . o	NJ 52 43	19 42
isborn	39 38	26 40
Middleburg in Zeland Mount Sinai	30 00	
Marpurge		22 25
Munster in Westphal.	50 43	32 35 31 10
Naples in Italy	51 34 40 42	
Newarke in England	40 42 53 02	38 35
Narbone in France	41 50	25 05 80 30
Ninive 1000 and the land to on	35 56	80 30
Norimberg	49 26	35 45
Oxford	41 50 35 56 49 26 51 50	35 45
Prague '	50 06	38 15
Paris	48 40 45 00 52 30	20 20 36 25 20 20 36 30 192 00
Padua	48 40 45 00 52 30 42 00 37 44 51 5	36 25 20 20
Peter burg	52 30	20 20
Rome	42 X	36 39
Quinzay	37 44 51 5	192 00
Rotterdam	51 5	63 30
Red-Sea	29 50 38 3	63 39
Sardes in Lydia	38 3	1 59 45 2 37 50
Salisburg Stamford	47 4	37 ans
	29 50 38 3 47 4 52 3 49 2	6 20 19
Spier	49 2	4 33 0
Tubing Wittenberg Venice	40 3	4 33 45
Vienna	45 1	4 33 45 5 36 10 6 40 00
thraniburg	55 5	4 36 4
Wittenburg	51 5	4 36 4
Worms	50 2	2 37 10
York	53 5	0 20 1

C

A T the end of this Book, you have two Tables; the of the wing the right alcention of the fun every day into year, the other the weth the right alcention, and declination certain of the most eminent fixed stars, I will in this place the how by the joyat use of these two Tables, any star mentioned the Table of stars will come to the Meridian, and the rule whold general for any star whose right ascension and declinate is known. The manner of working is as followeth.

The Rule.

Subtract the right ascension of the sun from the right ascension of the star, (whose time of coming to the Meridian is a quired) the remainer is the time of the said stars coming to the Meridian, afternoon, but if the right ascension of the stars less then the right ascension of the sun, adde 24 hours then unto, and subtract the right ascension of the sun therefrom, the remainer is the time of the stars coming to the Meridian.

Example. Upon the 11th of Decemit is required to know whe the Suls-eye comes to the Meridian; by your Table of the furight ascention, you find that the suns right ascention on the 11th, of December is 17 hours 59 min. and by your Tables stars you find the right ascention of the Sulseye to be 4 hours to Mow, (according to your rule) because the right ascention the sun is more then the right ascention of the star, and su traction cannot be made; you must adde 24 hours to the star declination, so will the sum be 28 hours 10 m, from which the 17 hours 59 m, the right ascention of the sun, the remainer who to hours 11 m, as which time the Suls-eye will come to meridian on the 11th, of December, after the sun, that is at 11 past 10 at night, the Buls-eye will be due South, the like of an other star whose right ascension is known. See the solland work

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his Rule here delivered is of excellent use for Seamen, the to find their latitude, for it is to be noted that the Rules theyon observe for finding of your latitude by the sun, the may be performed by the stars they being upon the Merias is already noted in the last Page of my doctrine of Tries, to which I refer you.

altitude of any known Star being given, to find thereby the hour of the night

Y the former rule find the time of the known stars coming to the Meridian, on the day proposed. Then seek out the horary distance of that star from the Meridian, the may be found by the same rule as you find the hour of say by the Sun, as is Prop. 15.

These things being found, if the star be on the East side, yet come to the Meridian, the difference of those two numof hours is the hour of the night: but if the star be West-spatt the Meridian, the sum of chose number of hours is the

of the night.

Of finding the variation of the Compaffe.

y the third Proposition before going, you are taught to find Suns amplitude, that is, how far distant the Sun riseth or th from the true East or West points of the Horizon. hus if the latitude given were 11 d. 32', and the Suns detion 15 deg. to min. North, the amplitude will be found

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to be 24 deg. 52 min, North, because the Suns declination

Of the amplitude thus found there is often use made at for finding the variation of the Compasse. Which is done

this manner.

Supposing the circumference or outermost edge of the case of the Compasse to be divided into 360 degrees; and points of the needles to be placed directly under the select, or North and South points; you are to obtain Sun-rising or letting, how many degrees the Sun is from East or West points of the Compasse, which number of grees, if they agree with the amplitude found by this posses is before shewed; and be on the same side; then has Compasse no variation; but if they differ look how many grees that difference is, so much is the variation.

As for example, admit I find the amplitude to be 144. Northerly, then I know that the Sun should set almost a grees from the West to the Northwards, but observatural setting with my Compasse, admit I find it to set but a grees from the West point of my Compasse to the Northwards I gather that the variation of my Compasse most 6 degrees. And thus you may find how much the variation of my Compasse most 6 degrees.

of the Compafic is, Now,

To find which may the Compaffe varieth.

If the degree of the Compasse which directly respects Sun at his rising or setting, (namely, the degree of amplifound as before) be more towards the right hand then the rising or setting, the variation is Easterly; but if it be sowards the left hand, the variation is Westerly. But when a mans face is towards the North, the East is on his hand, and the West on his left.

As in this example, I find by the amplitude, that the should be fet almost as degrees from the West points Compasse northerly, but setting the Sur, I see that the same of my compasse is more cowards the right hand that

e of Sun-fet, therefore, I conclude, that the variation is

nd thus is the variation of the Compasse found to be almost grees Easterly, so that the North point of the Compasse s not the rue north, but points almost & degrees to the rard of the north, and consequently all the other points e Compasse direct more rowards the right hand than they ld do by almost & deg. And the like in all points is to be unload if the observation had been made at sun-rising.

ote. It is fittest to make these observations when the sun s to be a little above the horizon, namely, when the lower of the sun seems almost to touch the horizon, for then the sin the horizon, though by reason of his refraction and pa-

x he feem to be above it.

he altitudes of any two known fixed flurs taken hen they are both in the Jume Assimuth, to find the height of the Puls.

the fine of the difference of the stars altitudes, is to the of the difference of their Right ascensions: Io is the fine energy stars distance from the apparent Pole, to the fine angle to be kept.

gain, Compare the furthest stars distance from the Pole

the distance from the Zerith, and fay,

the Radius, is to the fine of the complement of the angle fo is the rangent of the leffer of the compared arches, exangent of the hirst base.

bout the first base out of the greater of the two compared

is; and the remains shall be the second base.

hen laftly, fay,

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the fine of the complement of the first base; to the fine of the complement of the second base; is the fine of the complement or the lesser of the two compared arches that of the Pole, or latitude.

PARTE LINE STORE TO THE TRAINER IN

An advertisement to the Reader.

Here is lately published by Mr. Heary Phili A Treatife called The advancement of the of Mavigation : Or The Seamans Canon of angle a Book of excellent ule for all Sea-men w foever, for that by the new Tables therein conteined Natural Sines, Tangents, and Socants, to any radius cafes in plain right lined triangles, may be expedition and exactly relolved only by looking into the Tab without any calculation whatfoever, by which you keep your account in any lacitude, as well by the Sea-Chart as by the Plain Chart, and that without help of meridional parts, much better, quicker, and acter. There is also conteined in the faid Book yan of Examples, of all kinds, and the Tables not only plyed to the art of Navigation, but to furveying Land, in which are how necessary and useful they leave to the judgement of those whole shall find the nefit of them in their practice. Befides , there is it to this Book a second part, shewing feveral ways regulating the Log-line, for the more exact finding the Ships way, with feveral other Intruments conclutions cending to the keeping of an exact aco of time, with divers other things of the like cond ment.

Pag. 15, lin. 6, for Sun read fum.

TRIANGULAR CANON

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OR,

ATable of Artificial Sines,

Arithmetical of Sines, supplying the use of Secants.

To Radius 10,00000, and to every Degree and Minute of the Quadrant.



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Printed by R. and W. Leybourn, for
George Hurlock, and are to be fold at his
Shop at Magnus Church-corner.
1650.

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His Table of Artificial Sines, Tangents, and Arithmetical Complements of Sines to supply the use of Secants, with a Chilian of one Thousand Logarithms, is thought

fit (by Mr. Richard Norwed, & Hemy Bond) to be Printed to the Radius 10,00000; that such as are desirous thereof may have it at a more reasonable rate; then the other larger Tables are at; and because it is in a more portable volume, and is of the same use that the other Tables are; For by these Tables may be resolved all plain and Sphereal Triangles; and all Problemes of Sayling; either according to the plain Sea-chart, or according to Mercators-chart (without any other Meridional parts; then what are contained in these Tables) as it may partly appear, if you look in the latter end of the Appendix of the Path-way to perfect Sayling, now newly Printed, Vale;

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Sine comple.	Cina	Tangent	Tana	87		

3	Sine.	Sine compl,	Tang	Tangent comple.	1	of fire.	of find
C	871880	999940	871939	1128060	130	12811	00005
1	872120	999939	872180	1127819	29	127879	000006
2	872359	999939	872420	1127579	28	127640	00000
3	872822	999930	872805	1127341	26	12740	00006
3	873068	999937	873131	1126868	25	12692	00000
6							
7	873535	999935	873599	1126633 1126400 1126168	23	12646	00006
8	873766	999935	873831	1126168	322	12623	00006
9	873996	999934	874062	1125937	21	I 26003	00000
10	-	Management of the last of the		-	_	_	MANAGEMENT CO.
11	674453	999932	074520	1125479	1.8	125546	00000
12	874005	999932	874074	1125252	17	125004	0000
14	875120	999930	875198	1125026	16	124870	00006
15	875352	999930	875422	1124577	15	124647	00006
16	875574	999929	875645	1124354	14	124425	00007
17	875795	999928	875866	1124122		124204	
18	870015	999927	070087	1123912		123984	
19	876451	999927	0-6	1123093		123766	
200	-	-		77777		23332	Supplement of the
	876667 876882	999925		1123042	O	23117	Market Co.
13		999924			71	22903	10.0 (0.000)
4	877310	999923	77386	1122613	6	22689	-
5	877522	999922	77599	122400	5 1	22477	0000
6	77733	999921	778111	122188	50.00	22266	STREET, STREET,
8	77943	999921 8	78022 1	121977		22056	
9	378260	9999108	784401	121708		21630	
9,8	378567	9999198	78648 1	121351		21432	
	Cine	Characterist P.	-	Tang.	50		- 45 (E)

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37856			1121351	60 1214	32 00008
37877	999918	878855	1121144	59 1212	26 00008
37897	8 999917	879061	1120938	58 1210	21 00008
			1120733	57 1208	17 00008
37938	99991		1120326		14 000084
	The second second	A STATE OF THE PARTY OF	The Real Property of the Party	20 200	The second second
37008	999914	880070	1120124	54 1202	10,000086
38018	99991	880276	1119723	1198	10 000087
38038	999911	880475	1119524	51 1196	12 000088
38058	999911	880674	1119325	50 1194	14 000088
38078	999910	880871	1119128	19 1192	18 000089
380977	999909	881068	1118931	8 1190	22 000090
381172	999908	881264	1118735	47 1188	27 000001
		881457	1118541		0000092
-		-	1118152	1	7 0000dz
881042	999900	882028	1117961	1180	6 0000004
882134	999904	882229	1117770	211786	
882324	999903	882420	11175794	11767	15 000096
			11173894	011748	7 000097
882701	999931	882799	11172003		8 0000098
032388	1999901	8829871	11170123	811611	AND REAL PROPERTY AND ADDRESS.
882260	999900	88226	11168253	7 1 1 6 9 2 6 1 1 6 7 3	ALC: UNKNOWN
883445	999898	00	1163883	11655	
	or advantage life and the No.	883732	BOOK PARK P.	3	000102
883813	999806	883916	1160803		6 000103
83995	999895	884099	1150003	2 11600	3 000104
84177	999894	8842821	1157173	111582	2 000105
	999894	884464 1	1155353	0 12504	1 1000105
Sine comple.	Sine,	Tangent omplem.	Tang. 8	6	-
7		The state of the s		A 2-113 11	1900 BASS

1 8845; 2 8847; 3 8848; 4 8850; 5 8852; 6 8854; 7 8856; 9 8859; 10 8861; 11 8863; 12 8864; 13 8868; 14 8868; 15 8869; 16 887; 17 887;	58 99989 38 99989 18 99989 97 99989 75 99988 29 99988 04 99988 80 99988 54 99988 54 99988	3884645 2884825 1885005 885184 2835362 885540 7885717 6885893 5886068	1115535 1115354 1115174 1114994 1114815 1114637 1114459 1114282 1114106	57 115102 0001 56 114924 0001 55 114747 0001 54 114570 0001 53 114395 0001 52 114219 0001
1 8845; 2 8847; 3 8848; 4 8850; 5 8852; 6 8854; 7 8856; 9 8859; 10 8861; 11 8863; 12 8864; 13 8868; 14 8868; 16 887; 17 887;	38 99989 18 99989 77 99989 75 99988 22 99988 24 99988 80 99988 54 99988 54 99988	3884645 2884825 1885005 885184 2835362 885540 7885717 6885893 5886068	1115354 1115174 1114994 1114815 1114637 1114459 1114282 1114106	59 115461 0000 58 115281 0000 57 115102 0000 56 114924 0000 55 114747 0001 54 114570 0001 53 114395 0001 52 114219 0001
2 88471 3 88489 4 8850 5 8852 6 8854 7 8856 8 8857 9 8859 10 8861 11 8863 12 8864 14 8868 15 8869 16 8871	18 99989 97 99989 75 99988 29 99988 04 99988 80 99988 54 99988 54 99988	2884825 1885005 2885184 2885362 8855362 7885717 6885893 5886068	1115174 1114994 1114815 1114637 1114459 1114282 1114106	57 115102 0001 56 114924 0001 55 114747 0001 54 114570 0001 53 114395 0001 52 114219 0001
3 8848, 4 8850, 5 8854, 7 8856, 8 8857, 9 8859, 10 8861, 11 8863, 12 8868, 14 8868, 15 8869, 16 8871, 17 8872	97 99989 75 999889 29 99988 04 99988 80 99988 54 99988 28 99988	1 885005 0 885184 2 835362 8 85540 7 885717 6 885893 5 886068	1114994 1114815 1114637 1114459 1114282 1114106	54 114570 0001 53 114395 0001 52 114219 0001
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10 8861 11 8863 12 8864 13 8866 14 8868 15 8869 16 8871	28 99988	1006242	1-4-3704) 1 1 1 4 0 4 7 W
12 8864 13 8866 14 8868 15 8869 16 8871	The second second	5 886243	1113756	50 113871 0001
12 8864 13 8866 14 8868 15 8869 16 8871	01 99988	4886417	1113582	49 113698 0001
14 8868 15 8869 16 8871 17 8872	73 99988	3 886590	1113409	48 113526 0001
15 8899 16 8871 17 8872		2886763	THE RESERVE AND THE PARTY OF TH	1.6412100000
16,8871 17,8872	85 99988	1886935		LAST TOOLS WOOL
17,8872		-00-0-	1112723	- T+20 - 2 2000
	25 00087	2887446	1112553	43 1123/400
10,8874	192 99987	700/010	111230	1-1-122200000
19,8876	61 000 17	600/104	111221	10112171 m
20,8878	28 99987	× 00/95	111204/	- 17 200¢ 000
21 8879	94 99987	4 888120	1111879	38111839 0001
22 000	50 99987 25 99987	28845	1111546	37 111674 0001
24.8884	190 90987	888618	1111381	36 111509 0001
25,8886	54 09087	38878	1111216	35 111345 0001
	317 99986		111105	
27,8889	980 99086	888911	1110000	1110190001
28,8891	142 09984	7 38927	1110725	110506 0001
	303 99986	688943	111056	110525 000
30 8894 Sin	64 99986	Tangent.	THE RESIDENCE OF THE PERSON.	10-

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Sine.	Sine comple.	Tang.	Tangent comple.	of fine of fine et
889464	999865	889598	1110401	30110535 000134
889624	999864	889759	1110240	29 110375 000135
889784	999863	889920	1110079	28 110215 000126
889943	999862	890080	1109919	27 110056 000137
	999861	890239		26 109898 000138
890259	999860	890398	1109601	25 109740 000139
	999859	890556	1109443	24 109583 000140
	999858		1109285	23 109426 000141
	999857	890871		22 109270 000142
891040	999856	891028	1108815	20 108959 000144
	Market Total	891184	11 4110 10.2	THE RESERVE OF THE PARTY OF THE
	999854 999853	891340	1108659	
A	999852	891495 891649		17 108497 000147
0 2	999851	891803		16 108344 000148
901807	999850	891956	1108043	15 108192000140
891950	999849	2.0	1107890	14 108040 000150
	999848	892261	1107738	13 107889 000151
892261	999847	892413	1107586	12 107738 000152
892411	999846	092504	1107435	11 107588 000153
892560	999845	892715	1107284	10 107439 000154
	999844		1107134	9 107289 000155
892858	999843	893015	1106984	8 107141 000156
802754	999842	893164	1106835	7106993 000157
893301	999840 999839	0	1106686	THE RESERVE AND ADDRESS OF THE PARTY OF THE
-	-	893461		
	999838	893609	1106390	
	999837 999836	893756	1106243	2 106405 000162
	999835	894049	1105050	1106115 000164
10	999834	894195	1105804	0105970000165
Sine comple.	Sine.	Tangent comple.	Tang.	85

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5 Sine.	comple.	ang.	Comple.		of fice	0000
90,000	0008348	94195	1105804	60	105970	000016
1 894173 2 894317 3 894460	9998338	94340	1109659	159	105826	00016
2894317	9998328	94485	110951	158	105082	000016
894460	999831	94629	11053/0	156	105396	00010
4894603	999831 999829 999828	94//3	110508	55	105254	00017
805028	999827	95 202	110479	753	104971	00017
895169	999826	95344	110465	5 52	104830	00017
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1 - XOSAAO	I IOOOX2219	97020	110437			
11 895589	999822	895707	110409	248	104271	00011
11 895589 12 895728 13 895867	000810	896047	110395	2 47	104132	1000
13 896005						
CHECK OF LAS	CANADA	04034	1220701	サイフィ		COO II
16 896280	999816 999815 999813	89546	3 110353	044	103719	0001
17 895416	999815	89660	1110339	042	103446	
18 89055	999813	89687	5 110312	341	103310	0001
20 89682	A TOTAL OF THE REAL PROPERTY.	89701	3 110298	36 40	10317	50001
1 0060E	200000	80714	0 11028	0 35	103010	1000
22 89709	1999809	89728	5 110271	4 38	10290	5 0001
23 89722	999810 1999809 1999808 2999806	80742	0110257	19 3/	102/7	7 0001
24 89730	6 999805	89769	0110230	09 35	10250	3 0001
7301-14	SECTION.	100792	4 - 200 35	72 2/	110227	Olamor I
2789776	1 999803	89795	8 11020	11 3	10223	8 0001
28 89789	9999804 1999803 4999802	89809	2 11019	773	10210	5 0001
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30 89815	12 (2) 25	Tangel	7 11016	707 PH	120104	A Agran
somple	Sine.	Comple		. 18	4	

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0.0112	207000	-0-s	101642	30 101842 000200	ŀ
09017/7	997998	1311		29 101711 000201	l
898288 9 8984 18 <i>9</i>			101510	28 101581 000202	ŀ
898549 9		98621	101246	27 101450 000204	١
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8989379	99792	99145	1100854	24 101062 000207	I
899066 9	0-1	99275	1100724	23 100933 000209	
899194 9 899322 9		99404	1100466	la landad and	
899449		99662	1100337	and control sands.	
899576	0-	99790	1100209	19 100423 00021	Ą
899703	99784	RODOTR	1100081	18 100296 00021	
899829	999783	900046	1099953		
	COOPPOR	900173	1099826		7
	Comment of the last	900300	The second of	15 099918 00021	a
900206	000778	900427	1099572	A CONTRACTOR OF THE PROPERTY OF THE PARTY.	
900450	9997771	900553 900679	1099320		-
900580	999775	900804	1099195		4
900704	999774	900929	1099070	10 099295 00022	ŝ
900827	999773	901054			6
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901196		901303	109869		
901318	999768	901426	1-A-O	9 5 098803 00023 9 5 098681 00023	0
901439	999766	901672	AND COLUMN	The state of the s	
901561	999765	901795	The state of the s	6 409856000023	3
901082	999764	901918	109808	1 2098317 00023	5
901923	999762 999761			9 1 098196 00022	7
Sine	99901	-	109783	7 0098076 00023	8
comple.	Sinc.	Tangent comple.		184	

1	Cina	Sine	Tana	Tangent	COL T COL
180 200 0	210c		Tang.	The second second second	
105	01923	999761	902162	1097837	60 098076 000
IS	02043	999760	902283	1097716	59097956000
25	02163	999758	902404	1097595	58097836000
35	02282	999759	902525	1097474	57097717000
				1007334	5609759800
10.00	-	999754		1097234	-
69	02638	999753	902885	1097114	54 097361 000
79	02756	999752	903004	1006876	53 097243 000
89	02074	000740	003242	1002757	51 097008 000
	03108	999747	903360	1096639	50096891000
NO MARKET SAL	STATE OF THE PARTY OF		A STATE OF THE PARTY.	-	49096774000
126	03243	999745	903506	1005402	48 96657000
130	03458	999748	903714	1096285	47 996541 000
149	03574	999742	903831	1096168	146 096425 000
159	03689	999741	903948	1096051	45 096310000
169	03804	999739	904065	1097934	44 096 19500
179	03919	999738	904181	1095818	43 09608000
1189	04034	999336	904247	109:702	42,095965
		999735	904412	1095547	41 09585 000
1000	04262	THE REAL PROPERTY.			1 25/3/
219	04376	999732	904043	1005356	39095623 000
220	04489	000720	004872	1005127	38 795510 000 37 795397 F.C.
					36 295284 000
				1094899	
	Colonia Colonia			1091785	
	05051	999724	905327	1004670	33 794948 200
28 9	05163	999722	905440	1094559	32 094836 000
29 9	05374	999721	905553	1094446	31 294725 000
309	05385	999719	905665	1094334	3015946141000
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301911569 999626 911942 1088057	30 088430 000373
31 911665 999625 912040 1087959	29 088334 000374
32 911761 999623 912137 1087862	28 088238 000376
43 911846 999621 912234 1087765 24 911951 999620 912331 1087668	26 088048 000378
35 9120461999618 912428 1087571	25 087953 000381
36 912141 999616 9125 24 1087475	24 087858 000383
37 912236 999615 912621 1087378	A ROBERT COME TO A SECURE A SECURE OF STREET, THE PARTY OF THE PARTY O
38 912336 9996 13 912717 1087282	22 087669 000386
39 912424 9996 11 912813 1087 186 40 9125 18 9996 10 912908 108709 1	25 087481 000388
41 912612 999608 913004 1086995	19087387000391
42 912706 999606 913099 1086900	A TOP OF THE PERSON NAMED IN CONTRACT OF THE PERSON NAMED IN C
43 912799 999604 913194 1086805	17 087200 000395
44 912892 999603 913289 1086710	16 087107 000396
1	08/014 030398
46 913078 999599 913478 10 86521 47 913170 999598 913572 10 86427	
8 913262 999596 913666 1086333	12 086737 000401
49 91 3355 999594 91 3760 1086239	
50 913447 9995 92 913854 1086145	10 086552 000407
51 913538 999591 913947 1086052	
52 913630 999589 914040 1085959 53 913721 999587 914134 1085866	7 086278 000412
54 913812 999585 914226 1085773	6086187000414
55 913903 999584 914319 1085686	
56 913984 9995 82 914412 1085587	4 086005 000417
57 91408 5 9995 80 9145 04 108 5 495	3085914'000419
58 914175 999578 914596 1085403 59 914265 999577 914688 1085211	1 085734 000422
60/914355/999575/914780/1085219	0 085644 000424
1 Sine 1 Sine 1 Tangent Tang 1	82
conduct.	THE RESIDENCE OF THE PARTY AND ADDRESS.

			1	-	. 对自己的	
87Sine	Sine comp.	Tang	Tappat comp.	1 100	fire of in co	1
30 91697	0 99952	0 917449	1682550	0 30 083	029 000479	1
31 91709	4 99951	8 917530	108246	29,082	45 000481	1
32 91713	8,99951	6 91762	108237	7 28 0828	61 00048	1
35 91722	6 0005 1	91779	108229	26:082	76 000487	1
35.91739	099951	91787	1082120	5 0846	09 DC048	1
	The second second	PARKET MEDITOR	1082034		25 000491	I
37 91755	AND RESIDENCE AND RESIDENCE.	THE RESERVE AND PERSONS ASSESSMENT	1081949		42 000102	ł
38,91764	199950	ALCOHOLOGICALIST	108186	221082	58 000494	ŀ
3991772	41999501	a Salation decision	1981770 108160	20.082	75,000496	l
4091780	and productions are	PARTINIT AND	PROBLEM SEC. AL	19 0821	92 000498	l
42 91797	THE RESIDENCE OF THE PARTY.	1018175	108160		09 000500 07 000502	
43 91805	5 999495	918559	1081440	7 0810	44 000504	I
			1081256	16 081	62 000 506	l
45 91821	3 money		1081271	15 OR 1	80,000508	ľ
46 91830	1999489 2999487	918811	1081188	40816	98 000510	l
48 91846	AND ADDRESS.	918979	108110	12 0	V 0000	
49 91854	5 99 9483	S AND REAL PLAN	1080937	110814	53 300516	ä
5091862	999481	919146	1080853	100813	71 000518	ě
51 918709		919329	1080770		90 000520	
52 91 879 0	999477		1080687		09 000522	8
54918951	999472	919395	1080604		28 000524 48 000526	Ē
55 919032	999471	919560	1080439	5 0809	67 000528	
56 919112	999469	919643	1080356	4 0808	87.000530	N. S.
57919193	999467	919725	1080274	3 0808	06:000532	1
500102=2	999405	919807	1080192	20807	26 0005 34	150
60919433	999461	919971	1080028	00805	66,000588	1000
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0 919433 999461 219971 1080028 60 280566 000538
919512999459 22052 1079947 59 080487000546
2 919592 699457 920134 1079865 158 080407 000542 3 919671 099455 920215 1079784 57 080328 000544
4919751999453 920297 1079702 56 080248 000546
To the second of
7,919987 999447 920540 1079459 53 080012 000552
9020066 999445 920620 1079379 52 079933 000554
10 920223 999441 920781 1079218 50 079776 000558
11 920301 999439 920861 1079138 49 079698 070560
13 020457 999435 921022 1078978 47 079542 000564
14 020535 999433 921101 1078898 46 679464 000566 15 020613 999431 921181 1078818 45 079386 000568
16 920640 999429 921261 1078728 44 079300 000579
17/920767/999427/921340/1078659/43/079232/00057
18 926844 999425 921419 1078580 42 079154 00574
90 920 99 99 99 921 977 1078 422 40 079000 000 78
21 921075 99941 721656 1078343 39078924 20058
23 921229 999414 921814 1078185 37 078770 0058
24 921 381 1999 410 921 970 1078 107 30 078 618 20058
26 021457 000408 022049 1077050 31 0785 12 30059
28/921609/999404/922205/1077794/32/078460/00059
29 92168 299402 922282 1077717 31 078314 20059
3009217661799400922301107703913707523910052
compl. Since comple Landing

	(24)	ALC: N
9] Sinc Comple Tang	Complem Con and	Com-ar. of Sign-
30 921760 999400 922360	167763930078239	000199
31 921836 999398 92243	07750 7757	100000
32921911 999396 92251 33921988 999393 92259		000606
34 922061 999391 92267	31077320 26 077 38	000(10)
35 922136 999389 92274	1077176 54 077788	000012
36 922211 999387 92282 37 922286 999385 92290	1077099 23 0777 3	00014
38,922360 999383 92297	7 1077022 22 07/039	000018
40 922509 999378 92313		000621
41 922383 999376 92329	31695917111107724	000025
42 92 265 7 999 374 92 328	8 1076641 17 077268	960627
44 922804 999370 9234	5日日本人名日中国中国共和国人	000631
45 922878 999368 9235	35 1076414 14 07704	000031
12022020002620226	61 1076338 13 076974	1000638
48 923 098 999361 9237	12 1076187 11 07682	100000
TOTAL PROPERTY AND ADDRESS OF THE PARTY AND AD		
51 922317 999355 9239 52 923389 999352 9240	62 1076037 907668	
53 923462 999350 9241	11 1075888 7 07653 86 1075813 6 7646	
54 9235 34 999340 924	61 1075738 5 07639	2 000653
56 923679 999344 9243	35 1075664 4 07632	0 000655 8 000658
57 92375 1 999341 9214 58 922823 9993 39 9244	82 1075516 2 07617	6 000660
59 923895 999337 9245	\$7 1075442 1 07610 31 1075368 0 0760	NAME OF TAXABLE PARTY OF TAXABLE
1 Sine Sine Tang	ang lang, 1801	Leanapl.
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101 Sin	Comple.	ang J Ta	plem 1 1	f Sine.	Com.
0 92396	7 999335 92	4631 107	5368 60 0	76032	00:66
1 92403	8 999332 92	4705 107		75961	
2 92411	099933092	1779 107	5220580	75889	NORTH COLUMN
4.02425	1 999328 92 2 999326 92	4852 107 4026 107		75747	0067
5 92432	3 959323 92	4999 107	5-08-550	75676	00067
6 92430	1999321 92	5073 107	1926 54 0	75005	00067
7 92446	99931992	\$146 167	853 53 0	75534	00068
	6999317192	52191074 5292 1074	78815216	75463	00068
9 92460	799931292	364 107		75322	00068
110242	99931092	5437107	1562 490	75252	00068
12 02484		5500 107	1190480	7518	0:069
13 92485	CONTRACTOR AND ADDRESS.	5582 07	1117 170	75111	00069
14 92495	0 999303 92	505411074	1273 45 0	74071	00066
10 045014	8 999299 92	5700 107	1200	74007	STATE OF
	7.999295 92			71832	20070
18 22523	7 999294 92		CONTROL OF PARTY	74762	00070
1993536	6 999 292 97	6086 107	3985 41 0	74693	00070 00071
20 92537	6 999 289 92	6157007	913	7,4043	COCH-
21 92544 12 92551	5 999287 92 4 999285 92			74485	20071
23 02558	2,999282 92	6300 107	699 270	74416	00071
The Ball of the contract of th	2 999280 92		3628 360	74347	00071
25 92572	1 999278 92		257 35 0	74378	00072
26 92578	9999275 92	0513107 5584107	3480 310	74210	00072
27 92585 28 92592	6 999271 92	005 TEE 50	344320	74072	00072
29 92599	999268 92	6726 107	273 31 0	74074	00073
30172606	3 999266 92	Contract of the Contract of th	NAME OF STREET	73936	20073
1 Sine	Sine, LTa	ngent Ta	ng. 179	15	ni t

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10 Sinc. Fee	Sine Tang.	Tangent Comple	Comear. Com. ar
30 926063190	92661926796	1073203 30	073936 000733
31 926131 99		1073132 29	073868 000735
	9261 926937	1073062 28	BEAUTION DESIGNATION
	9259 927007	1072922 26	073732 000740
35 926402 99	9254 927147	107285225	073597 000745
	9252 927217	1072782 24	(を)を)が、2月1日から、日本のでは
37,926537,99	9250 927287	1072642 22	SERVICE SERVIC
	9245 927426	1072553 21	EARLY OF THE PARTY
	9243 927496	1072503 20	073260 000756
A SECOND CONTRACTOR OF THE PARTY OF THE	9240 927565		073193 000759
42 926873 99	9238 <i>92</i> 7035 9235 <i>92</i> 7704	1072364 18	THE CO. LINSTEINS STORYS, TABLE 1
44 927006 99		1072226 16	072902 000766
45 927073 99	9231 927842	1072157 15	072926 000768
46 9271 29 99			072860000771
48 027205 99	9226 927980 9223 928048	107195112	072793 000773
49 9273 38 99	9221 928117	1071882 11	072661 000778
20 927404 99	9219 928185	1071814 10	EXCREMENTAL LABORITOR & P.
927470.99	9216 928254	1071745 9	072529 000783
53 927602 99	9214 928322	1071609 7	072463 200785
14927668 99	19209928458	1071541 6	EXPENSION AND A PROPERTY.
	Name of the last o	1971473 5	072266 000793
	9204 928594	1071405 4	072200 000795
A CONTRACTOR OF THE PARTY OF THE PARTY	9232 928662	1071269 2	072235 000797
9 927994 99	9197 928797	1071202	072005 000802
01928059 99		1071134 0	07,1940000895
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92805919991941928865 1071134160 071940 0008
1 928124 999 92 928932 1071067 59 071815 0008
2 928189 999189 928999 1071000 58 0 1875 00 8
19282541999187 929067 1070932157 071744 0008 419283191999184 929124 1070864 56 071680 0008
5 928 3 8 3 999 1 8 2 9 2 9 2 9 1 10 7 0 7 9 8 5 5 0 7 1 6 1 6 0 0 0 8
6 928448 999179 929 268 1070731 54 071551 0008
7/928512999177/929335/1070065/53/07/1487/c008 8/928576/999174/929401/1070598/52/07/1425/0008
9 928640 999172 929468 107053 151 071359 0008
10 928704 999169 929534 107 3465 50 071295 0008
11 928768 999167 929605 1 970398 49 0712 1 0008 12 9288 2 2 999 164 929667 1 0703 2 148 0713 6 700 08
13 928896 099162 929733 1070266 47 071103 0008
14/928966/959159/929866/1070139/44/07/859/0008
16 929087 999154 929932 1070067 44 070912 0008
17 929 150 999 152 929998 1070001 43 070849 00084
18 929213 999149 930063 1069936 42 070786 00085
20 929 739 999 144 9301 95 105 9804 40 070660 00085
21 929402 999142 930260 1069739 39 070597 00085
23 929465 999139 930326 1069673 38 0705 34 00086 23 9295 28 999137 930391 1069608 37 070471 00086
24 929591 999134 930456 1069543 36 070408 00086
25 920653 999132 930521 1 069478 35 070346 00086
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36 72006 1999 179 930849 1069218 31 070096 00088
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929965 9991 19 930846 10691 53 33 170034 000 880
930027 999116 9309 10 1069089 29 069972 000883
2930089 999114 930975 1069024 28 069910 000885
990151 999111 931039 1068960 27 069848 000888
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6 020236 999103 931232 1068767 24 069663 000896
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9920459 999098 931361 1068639 22 069540 000901
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52 931309 999061 93 2217 1057742 8 68690 000938
7 068630 000 40
55 02 1480 000052 022435 1067626 10685 10 000042
56 92 1549 999051 932498 1067501 4 0684 50 000948
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58 931 668 999045 932623 1067376 2068331 000954
60 021787 999043 032747 1067252 0 06821 2000050
1 Sine 1 Sine Tangent Tange 188
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121 Sinc.			Tangent Complem	1 Lot Sine	Lofsi
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2 931847	999037 9	32809	10671 <i>9</i> 0	59 068151 58 06809	
1 2 02 1 055	0000220	22022	1007400	157100802	4 4 E C C C C C C
7 922024	99902919	328951	100,004) Y [W / Y / '	2 1
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10 932378	999013	ALCOHOL: N	-	50 06762	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other party of the Concession, Name of
14 022405	0000C7.n	20480	1065512	49 06756 48 06750	
1 3 932553	999005 9	33548	1066451	47,00744	3000
14 932611	POST SIGNATURE S	וערייכני		46 06738	
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16 932728 17 932786	008001° 908001°	33731	1066208	42 06721	00100
18 932844	99899I q	22852	1000147	42 40715	Portor
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20 932959	998985 9	22212	The second second second second		W Comment
21 933017 22 933075	998980 o	24004	106,905	38 06692	00101
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939859 998-94	941265	1058734	39 060140	001405
22008 998590	941217	1058692	29 060091	001409
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940036 998584 940054 998581	941471	1058526	26 059945	201418
		1058474		001422
140152 998574	941577	1058422	24 059847	001425
240200 998571	941629	1058370	23 059799	001428
740248 998567 340227 998564	941000	1058319	22 05 97 51 21 05 97 02	001432 001425
240345 99856	941784		20059654	
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240441 998554	941887	1058112	18,059558	001445
240490 998551 240538 99 8 548	941930	1058001	16 05 9461	001448
940586 998544	942041	1057958	15 059413	001455
940634 998541	942092	1057907	14059365	001458
9+0682 998538			13 059317	
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940825 998528		1057702	10059174	001471
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940920 998521	942399	1057600	8059079	001478
940988 9985 17	942450	1057549	7050031	30,73 (11,00)
941063 998514		1057448	5 058936	201488
94111 998507	-	057397	4 058819	001492
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15	Sine.	Sine	A455500	Tangent	1 00m m
	Control of the same	comple.	Lang.	comple.	of fine of fa
10	941299	998494	942805	1057194	60 058700 con
1	941346	998490	942855	1057144	59 058653 0019
2	941393	998487	94 2906	1057093	58058606 0019 57058559 0019
13	941440 941487	998480	943006	1056993	56 058512 0019
13	941534		943057	1056942	55 058465 0015
6	941581	998474	943157	1056893	54 058418 0019
16	941628	998470	943157		53 058371 0015
0	941721	998476 998463	943207		52 058324 0015 51 058278 0015
10	941768	998466	943308		90 058231 0015
	941814		943358	1056641	49 058185 0019
	941861 941907			1056592	18 058138 0019
	941954		943457	1056492	47 05 809 2 0019 46 05 804 5 001
	942000		943557	1056442	45 057999 0019
16	942047	998439	943607	1056392	44 057952 COIS
17	942093	998430	943657	1056293	43 057906 0019
19	942185	998429	943756	1056243	41 057814 0015
20	942231	998425	943805	1056194	40 057768 0015
21	942277	998422	943855	1056144	39 057722 0015
22	942323	998418	913904	1055045	38 057676 0019
24	942415	998412	944003	1055996	360575840015
25	942461	998408	944052	1055947	35 057538 0019
26	942507	998405		1055897	34 057492 0019
	942552			1055799	33 057447 001
29	942614	998394	944249	1055750	31 057355 0010
180	942589	998391	944298	1055701	30.057310.001
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942689			-0)7/01					
942735	998587		1055652	29 057264 00161				
942780	998384	944390		25 057219 00161				
942826	998380	944445		25 057173 00161				
942871	998377	944494						
942917	998378	944543	1055450					
912962	Company of the control of the contro		1055407	24 057037 00163 23 046992 00163				
943007	1998360		1055358	23 046992 90103				
943052	998362	944689	1055310	22 050947 00103				
943097	998359	944738	1055261	21 056002 00164				
943143	998355	944787	1055212	2005685700164				
943187	99835	944835	1055164	1905681200164				
943222	998348	944884	1055115	18,05676700169				
943277	998349	944932	1055067	17 056722 00165				
943322	99834	914981	105501					
943367	998330	945029	1054970	15 050632 00106				
042412	998334	945079	1054922	14 056587 00166				
1913456	998334	945126	1054872	13 056543 00166				
94350	998327	945174	1054825	12 056498 00167				
9943546	99832	945222	1054777	11 056453 00169				
943590	998320	945270	105472	1005640900167				
1042625	998316	045215	105468	9056364 00168				
The state of the s		1 2 2 2	A REAL PROPERTY AND ADDRESS OF	805632000168				
3 943724			105458	7 056275 00169				
1943768	I BOOKERY - BARRELLE	AND THE RESERVE	1054537	6 056231 00169				
943812	99830	945510	1054489	5 056187 00169				
694286	99820	PARTE	105444	4 056142 00170				
7942001	99829	04560	1054202					
94394	998291	045654	1054245	205605400170				
994398	00000	945701	1054298	1 056010 00171				
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1 mil you ou	000	012510	1054250	60	055966	0017	09
944077 2944121 3944165 4944209 5944252	998280	945797	1054202	159	05592	2 0017	
2 044121	998276	945844	1054155	158	105587	4 0017	19
2 944165	998277	945892	1054107	157	05570	0.0017	39
4 944209	998269	945940	1054059	120	05574	6 0017	49
5 944252	998266	945987	105401	122	05570	2 0017	5 9
6 944297	99826	946034	105396	227	05565	80017	69
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11 94451	99844	004621	105378	148	9554	10/0017	1 9
1494455	リンプラーオ	- C. A.C.	1		-105529	77 10017	2
13 94460	99822	2 04641	105358	74	95539	4 0017	3
15 94464	999822	994645	105354	9	5 0773		5
16 94473	2 00822	5 01650	6 105349	13 +	4 25520	7 0017	6
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16 94473 17 94477 18 94481	9 99821	8 94660	0105339	2914	0551	27 0017	8
110104+00	12 330 41	4134004	120000	Sel.	010550	94 0017	2
20 91490 21 94494 22 94499 23 9450 24 9450 25 9451	5 99821	094069	4 10733		0550	510010	0
21 94494	8 99820	7 94674	110532	701	80550	0800	1
22 94499	1 99820	03 94678	10521	6=	7 -549	55,001	2
23 9450	34 998 14	99 94082	110521	18	36 05.49	22001	3
24,9450	779901	02 0460	8 10530	73	35 0548	79001	9 4
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20 0452	91 9981	77 9471	14 10528	85	31 254	565 CO	9
30,0453	34 9981	81 9470 77 9471 73 9471	6010528	320	30-0740	307,00	
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6 Sinc.	Sine compl.	Tang.	Tangent complem-	com. ar	of fin. co				
0945334	99817	947160	1052839	30 05466	00182				
				29 05464					
2945419	99816	5947253	1052746	28 054580	00183				
3945461	998162	2947299	1052700	27 054538	300183				
1945504	998150	947345	1052654	26 05440	001841				
	130	947391	D. A. C. A. P. WOOD CO. CO.	25 05445	The second second				
			1052561		001848				
045672	998142	947530	1052460	22 054326	001852				
945716	998139	947576	1052423	21 054283	00186				
945758	998136	947622		20 054241					
945800	998132	947668	1052331	19 054199	001867				
945842	998128		1052285	18 054157	001871				
945884	008120	947700	1052239	17 054115	001875				
945968	998117	947851	1052148	16 054073	∞ 1882				
		-	A STATE OF THE PARTY OF	14 053989	-				
946052	998109	947942	1052056	13 05 3947	001890				
946094	998105	947988	1052011	12 053905	001894				
9401261	998101	C48024	1051965	11 053863					
946178	46 11 14 14 14 14 14 1	The second second	1051919	THE RESIDENCE AND ADDRESS OF THE PARTY NAMED IN	001901				
946219	208000		1051874	9 053780					
946261	98086	948 71	1051828	8 053738 7 053696					
946344	98082	948262		6 053655	001917				
946386	98078	948307	1051692	5 053613	001921				
946427 5	98075	948352	051647	4 053572					
9404 09 15	1900/11	04X20XII	OSIGOTI	3 053530					
9465529	9000	94844311	021220	1 053447					
46593		948488 I	051466	0 053406					
Sine	Sine.	angent .	3.44.C	EAGE CASE	1				

7. Sine.	Sine compl.	Tang.	Tangent complem.	of		fip. of	
0046502			1051466	60,053	406 0	0194	PI9
A245,123	20000	240337	7077420	50052	265 0	OTO	
1 940034	008061	248277	1051420	58053	323 0	O194	þ
2940070	008048	048866	1051330		282 0	01951	8
3046758	008044	048714	1051285	56 053	241 0	01955	
6 046700	998040	948759	1051240		200	01959	
3 246940	008026	AND DESCRIPTION OF THE PARTY.	1051195	Laure Lauren	150	001963	ş,
0 940040	008032	018810	1051150	3 053	118	001967	
B 026022	loox 2x	OAXXO.	105 1105	172 MY		201971	B
9946963	998024	948938	1051061	U 1 1 1 1 1	200	00197	
10 947004	998020	948983	1051016	50 052	995	XX1979	P
248045	008016	010 28	1050071	19 953		198	
12 047086	998012	949073	1050026	48050	2913	20198	P
12 947086 13 94712	998000	949118	1050882	4705	2872	001999	
1404716	1144000	1949102	105083	140		20199	ľ
15 94720	998001	949207	105079	45 05	174	The state of the s	E
16 047240	09799	040251	105074	44/09		002001	P
17/04/72/80	コソソノフファ	フライスープレ	11070/0	CET OF LESS	30000	00200	6
18 947220	99798	949349	105065	2+2 25	2669	00201	R
19 947370	99798	949385	105:61	1412	2588	00201	6
20 94741	99798	949429	105057	つけらしてい	וטטרי	A CANADA PARA	ı
21 94745	99797	949474	105052	3905	2548	00202	ď
22,94749			105048	1380	2467	003030	
23 94753	2997969	949562	105043	713712	2426		
24 94757			105039	47	2286	00203	
25 94761	99790	1949651	105034	A STATE OF THE PARTY OF THE PAR	1000	The second second	
26 94765	99795		105030	103	2:46 2306	00204	
27 94769	99795	3 949739	105026	03312	2206	00200	
28 94773	399794	949784	105021	227104	2225	002054	
39 94777	499794	1949828	105 17	- Inc	2185	20205	
30 9478 1	499794	949872	105012	130	Angel A	10000	
Sime	Sine	Tangem	Tang	72		E SE	
Compa	724	anique an		100 (00)	Le.	12 12 1	

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	Sine	Tana	Tangent	of fine of fin. ca.
Sine.	LOS PRODUCTIONS	Tang.	combien.	THE RESIDENCE AND ASSESSMENT OF
947814	997941	949872		30 052185 002058
-			ITOS OOX 2	29 052145 002062
47894	997933	949960	1050039	28 05 2105 002066
747934	997929	950004	1049995	27 05 2065 00 2070 26 05 2025 00 2074 25 05 1985 00 2078
47974	997925	950048	1049907	25 05 1985 002078
		950092		24 05 1946 002082
18054	997917	950135		23 05 1906 002086
948093	99/913	950179	1049776	22 05 1866 002090
940133	997905	950223	1040722	21 051826 002094
048212	997901	950310		20 05 1787 002098
		950354	1040645	10 051747 002102
048202	997893	950398	1049601	18 05 1707 002 106
948331	997889	950441	1049558	18 05 1707 002 106 17 05 1668 002 110 16 05 1628 002 114
948371	99/885	950485	1049514	15 05 1589 002118
948410	99/881	950528		
948450	997877	950572	1049427	14 051549 002120
948489	997873	950615	1049304	13 05 15 10 002 126
948528	99/009	950059	1049297	11 051471 002130
948607	997861	053746	1049253	10 05 1392 00213
		950789		9 051353 002142
948685	99785	950832	1-016	8 051314 002140
		950875	1049124	7051274 002150
948764	997845	950919	1049080	
948803	997841	950962	104903	A STATE OF THE PARTY OF
948842	997837	95100	104899	
948881	99783	951048	104895	
948920	997828	95 109	104890	
943959	007820	95117		
Sine			BANK CONTRACT	7. 10 A 10
eempl.	Sinc.	complem	Tang.	172

18	Sine.	Sine compl.	Tang.	Tangent compen,		com, ar. of fine	of fin.
09	48998	997820	951177	1048822	60	051001	00217
194	19037	997816	951220	1048779	59	050962	0021
		997812					Q3218
394	49114	997808	951306	1048693	57	050885	00219
494	19153	997800	951349	1048650	20	050857	00219
-		TO SHARE SHEET		-	-		A SHARP SHAPE
700	9130	997791	951434	1048565		050769	
				1048479		050691	00221
		997783	951563	1048435	51	050653	Q022
1094	9385	997779	951605	1048394	50	050614	00222
1194	9423	997775	951648	1048351	49	050575	OC222
12 94	9462	997771	951690	1048309	48	050537	00222
5.00	9500	997762	951733	1048266	47	050461	00222
13000	9538 9577	997758	051818	1048223	3	030422	00224
-	9616	-	_	1048138		050384	
100		997750	951903	1048096	42	050346	00224
			951945	1048054	42	U5 U4 B	(422)
	9730	997741		1048011	41	050269	00225
20 94	9768	997737	952030	1047969	200	050231	00220
2194	9806	000000	A STATE OF THE PARTY OF THE PAR	1047924		DI13	00225
	Experience of the last	997725	952115	1047884	38	050117	00227
	Action in the	997720	952100	1047842	40.	-1-17	100 00000
	9958	997716	952241	1047758	35	040041	0022
	-	997712	-	1047717	34	050003	0022
				1047674		049965	00229
28 95	0072	997704	952367	1047632	32	049927	00229
	100 miles		952407	1047590	31	049899 049852	00230
	-	997695		1047548	30	142075	
-	ine I	Sing.	Tangent	Tang.	71		

			1. //	Address and the	1941
Sinc.	cempl.	The party of the last	Tangent complem.	eom, ar of fine	of fin, c 6
950147	797695	952451	1047548	30 049852	002304
50185	297691	952493	1047506	29 049814	002308
750223	997687	952535	1047464	28 049776	002312
manate	007682	052577	1047432	27 049739	002317
50298	1997070	952619	1047380	26 049701	002321
950335	99/0/4	952001	104/330	2 04900	2323
950373	997670	952703	1047296	O	002329
950411	997665	952745	1047254		002334
950448	997001	952/00	1047213		002342
250485	007652	052870	1047171	20,049474	
20243	27/017	232011	10.7000		-
050500	997041	052052	1047046	18 04940	1002355
9747 YO	007646	052005	1047046	S- a	
950672	997626	953036	1046963	16,04932	7002363
950709	997631	953078	1046921	15 04929	0002368
050745	00762	052110	1046880	14 04925	2 002372
950784	199762:	2953161	1040838	11304921	5002370
95082	199761	8,953202	1040/9/	120491/	0002301
950858	99761	4953243	1040750	11104914	
950899	99761	953285		THE RESERVE	-
		5 953326		1 0	7002394
950969	99760	1053367	104663	1 - 0	3002402
951CO	99759	/1953499	104654		6002406
		3953450		8 5 04891	9002411
71100	-	-	-		2002415
95111	- Anne O	495353	1101612		6002419
95110	099757	5 05361	104638		9 002424
95122	7 99757	1 95365	104634	3 1 04877	2 002428
95126	4 99756	5 95361 1 95365 7 95369	104630		15/002432
Sine	Cina	Tangent	Teno	7000	NEW
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-	MI.	25	
	2		8
1	. 1		1

			(,4	Teneral	Som at Ican	
9	Sine.	compl.	Tang.	complem.	of fine. of fin.	
0	951 264	997567	953697	1046302	60048735 0024	
800	A42000	DOME 60	100000	11046201	DAIOTOCANOCA	
2	951337	997558	953779	1046220	58 048662 0024 57 048525 0024	G
3	951374	997553	953820	1045179	57 048525 0024 56 048589 0024 55 048552 0024	1
4	951410	997549	953861	1046138	55048552002	
5	95.1447	997545	953902			3
6	951483	997540	953942		54 048516 0024	
7	951520	997536	953983	1040016	53048479002	Z
			954024	19459/5	52 048443 004 51 048407 004	
9	951593	997527	954055	1045802	50 048370 0024	4
4		THE STREET WAS	954106	TOURRES	490183340021	1
			954145	TO AFVE	TON TO SOO AND	1
			954187	1045771	14/1070701	2
			9542 28	JT046771	TO DE O SE SI VILLE	
			954268	1015690	141040109004	K
_	The same of the sa			1045650	44 0482530025 43 0481170025 42 0480800025	
0	95 1840	99749	954349	1045600	43 0481 17 0029	
6	951002	007189	97439	1045569	42 348080 003	8
9	95 TOSS	99748	954393 954431 954471	1045528	IN NOT HERE IN COMMON OF PERSONS ASSESSED.	9
ó	951991	99747	954511	2041400	142 04000	Ó
30	-		954552	1045447	39 047972 0025	1
			954592	TOARAGE		2
			95463	1045366	37 047901 0015 36 047865 0015 35 047820 0015	3
4	952134	99746	95467	1045320	35 247829 0025	4
5	952170	99745	954712	11047400	The second second	
6	952206	99745	2 954754	1045245	34 247793 2004	6
7			8 95479	. 1045 208	32 247721 0029	7
8			3 95483		31 047686 0025	0
	A STATE AND A STATE OF THE STAT		95487		30 047650 0029	2
C	952349	99743	495491	104503		
2	Sine	Sine	Tangent	Tang	79	
	sine compl.	Sine.	Complem	! Tang.	179	

	1.15		E3 /	14.	1000	
Sinc.	Sine compl.	Tang	Tangent complem.	11:	om, ar	of fin
952346	997434	954914	10,5085	200	47650	0024
	997430	CALL PROPERTY.	-	-	-	-
	997425			28 0	17579	0026
			1044964	27 6	47543	0025
952491	997416	955075	1044924	26 0	17508	0025
952527	997412	955115	1014884		17472	0025
952562	997407	955155	1044844	24 0	17437	0025
952598	997403	955195	1044804	23 0	17401	CO25
			1044764			
			1044724			0026
THE PERSON NAMED IN		-	1044785	Series Co.	7295	0040
972739	997385	955354	1044645	1904	7200	0026
972/75	997380	955394	1044603 1044565	18 04	7224	0026
052845	99/3/9	4777434 CEEATA	1044505	160	7154	conf
912880	997366	055512	1244486	1504	7119	0026
District on the last	Commercial Co.					100
			1044446			
952986	997353	955622	1044367	1204	7012	0026
953021	997358	955672	1044327	1104	6978	0046
953056		55712	1044287	1004	6943	2028
953001	997339	955751	1044248	9 04	6908	00266
			1044208		6873	
33161	997339	955830	1044169	7.04	6838	0026
753196			1044139		6803	
153231	and the second second	The same of the sa	1044090	5 04	6768	0026
753266	997316	955949	1044050	4 04	6738	2026
753300	997312	255981	10440H	3 04	6699 6664	0026
53335	197307	256027	1043972	2 04	6664	0026
23370	97303	756067	1043932	104	6629	026
33405	12. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	-	1043891	on4	6594	W270
compl.	Sine.	rangent.	Tang.		K 197211	1997

ada.		(4	14)		300
so Sin	c. Sine	Tang.	Tangent complem.	of fine.	
9534	05 997298	956106	1043893		particular de
19534	39 997293	956145	1043854	59016560	00220
2 9534	74 997289 99 997284	956185	1043814	58046525	00271
3 9737	997284	956224	1043775	57 046490	00271
422324	13 997280 78 997275	950203	1043736	50 046456	00271
			10106-	55 046421	
705364	2 997270 7 997266	950341	1043657	54 046387	00271
8 95368	1 997261	056420	1043579	53046318	2027
9 95371	6 997257	956450		51 046282	
095375	0 997252	956498		50046249	00274
1 95378	5 997247	956527	1043462	19046214	00276
2 95381	9 997243	956576	043423	8016180	00275
3 95385	9 997243 3 997238 8 997233	256615	043384	7046146	00272
495300	8 997233	756654	043345	6046111	00276
3 95394	199/229	956693	04336614	5046077	0027/
95395	0997224	56732	043267	4046043	00277
305402	0997219	50770	04322914	3040009	00278 95
95405	997215 9	568481	012151	1045940	33278 P5
95409	3 997205 9	56887	043112	0045906	10
d barrana	997201 9		and annual parties of the	Control of the last of the las	0.0
1974201	199719019	55954 10	043035 3	804582810	20280 95
1974195	199719119	57002 10	042996 37	704580410	20280
1774449	199710719	57041 10	042957 30	004577010	00281
974203	997182 9	5708010	04291939	0457360	xx2817 25
954297	Charles and the second	5711910	1288034	0457020	02822 95
	997172 9	7158 10	4284132	0456680	0282
954398		719010	42803 32	045635 0	0283 95
954432		7272 10	4272630	045601 X	52830
Sine		ngent	drobanch T	المرادر داخوا	Si
compl.	Sinc.	mplem.	ang. 60	1001 10	•01

The state of the s						
Sinc.	Sine comple.	Tang.	Tangent comple.	THE RESERVE	of fin. ea	
54432	997158	957273	1042726	30045567	002841	
E1456	997154	057212	1042687	49145553	002845	
MEREDO	997149	957350	1042649	28045499 27045466	002859	
#4E22	74/144	957389	1042610	26 045400	002855	
54567	79/137	97/44/	10425/2	26 045432 25 045398	002864	
954601	79/137	47/400		THE RESERVE AND ADDRESS OF THE PARTY AND ADDRE		
54634	997130		1042495	24 045365	002874	
DE 1662	1997125	957542	1042477	23 045331	002870	
754701	207116	957581	1042380	21 045264	002883	
54735	997111	957619	1042342	20 045 23 1	002888	
74/00	007106		Control of the Contro	19045197		
1000	1007101	1057724	1042207	110047104	002070	
974967 054860	997097	957772	1042227	16045097	002902	
054002	997092	957810	1042189	16045097	002907	
954036	199/90/	197/040	10427	1) -4)00	Transaction of the last	
00 1060	007082	057886	1042112	14045020	002917	
055002	1997077	1957924	10420/5	1304499/	W2922	
055025	1007072	1957902	104203/	112044904	77.50	
955069	997068	958000	1041961	11 044930	002026	
				1004480	002047	
955135	99705	958077	1041923	9044864	002946	
955108	99705	958114	1041885	704470	002950	
25522	00704	1058100	104184	604476	(10011955	
955 268	997030	958228	104177	5 04473	002960	
			104173	4 04469	002965	
955334	199702	91958304	104109	3 204466	5 002970	
91530	7199/02.	11470344	104107	2 24463	2 002975	
955399	0199702	01958379	104102	1 104400	002979	
955432	99701	5 958417	104158	0104450	7002984	
Si ne	Sine	Tangeut	Tang	60	The state of the s	

	the second	-	and the second	Service Service	2585	1.000/3	AND -
ÞI	Sinc.	somple.	Tang.	Tangent comple.		of Si	
				1041582			57 a
7	955465	997010	958455	1041544 1041506 1041469 1041431	59	0445	34 a
2	955498	997005	958493	1041506	58	0445	Oila
3	955531	997000	958530	1041469	57	0444	08/00
4	277704	990997	970790 958606	1041431	55	0444	5) Q
2				-		2442	76
2	955662	99698T	Q58681	1041356	152	04422	2700
8	955695	996976	958719	1041280	52	04430	04 00
9	955727	996971	958756	1041280 1041243	51	04427	72 00
10	277/00	990900	10/94	1041205	20	0442	
11	955793	996961	958831	1041168	48	04420	×6 00
12	955825	990950	958809	1041130	40	04417	400
13	955800	996916	058044	1041093	46	24410	000
				1041018			
16	955955	996937	959018	1040981	44	04404	400
17	956988	996932	959056	1040943	43	04401	1 00
18	950020	996927	959093	1040906	42	04397	900
19	950053	999922	959130	1040869	40	24394 24301	0 30
-					2.00	Committee of the last of the l	
22	56150	006007	000242	1040794	38	94384	000
23	956182	996992	959279	1040720			
24	956214	996897	959217	1040682	36	34378	5 00
		-	-	1040645	35	94375	300
26	756279	996887	959391	1040608	34	94372	0 20
27	250311	996882	959428	1040571	33	4368	× 30
20	256275	996872	250502	1040534	A	04365 04362	
30	56407	996867	259530	1040460		4359	
-	Sine	0:	T	-	40	12/2	1000
	comple.	Sine.	Tangent comple.	Tang.	90	1 . 3	100

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Sinc.	Sine comple.	Tang.	Tangent comple,		of fine	of fin.st.
56407	996867	959539	1040460	30	043592	003132
56439	996862	959576	1040423	29	943560	003137
56471	996857	959613 959650	1040386			
56503 56535	996847	959687	1040312	26k	043464	
56567	996842	- 111	1040275			003157
	996837	959761	1040238	24	343400 342268	003162
56663	990027	959815	1040104	22	43330	003172
56695	996822	959872	1040127	210	43304	003177
and the second section 1	996812	959909 959945	1040054			-
56790	996807	959982	1040017	18	43209	
56822 56852	996802	960019	1039980			002202
56885	996792	960092	1039907	15		003207
	996787		1039870	- 10 P	43082	Daniel State of the Control of the C
	996777		1039833		43019	
57012	996772	960239	1039760	110	42988	003227
	996767	-	1039723		42956	
	996757		103 <i>96</i> 87 103 <i>9</i> 650		42924	
57138	996752	960385	1039814	70	42861	003247
77109 77200	996742	960422	1039577		42830	
Colores de la co	Billion Company	-	1039504	100	42767	1000
57263	996731	960531	1039468	The Park Street	42736	
77326		960568 960604	1039395	10000	42705	U.S. Mark, Walleton,
57357		960640		the state of the	42642	Committee of the commit
Sine comple.	Sine.	Taggent somple,	Tang.	68	lic dia	

7	in the same	elto acido		40)	
23	Sine.		Tang.	Tangent comple.	of fine of
-0	957357	996716	960640	1039359	60 042642 00
(Feb.25)	25220	popular	960677	TO20222	59 042011 00
Mary.	DE TARA	DOGTOR	900712	1020280	70144779100
3	957451	996701	060786	1039230	57 042548 00 56 042517 00
14	957513	996691	960822	1039177	55 042486 20
13	OFTE A	006684	060858	1020141	54 042455 00
1955	OFFICIAL	1006680	IOHOXOC	HO20104	17 3 10 4 2 4 2 4 100
8	OCTAOS.	10000075	1900021	110200008	17-1-4-27210
9	957637	990070	961002	1039032	51 042362 00 50 042331 20
				1038960	
-	057720	lookhee	1061075	1028024	48 042269 30
	0-776	100000	OVITIO	JUZNAXX	14/144240100
14	057702	996641	961181	1038851	401-4220/10
15	957823	990039	901140	1030017	45 042176 20
16	957854	996620	961256	1038742	44 042145 20
18	957916	996624	961192	1038707	43 042114 33 42 042083 33 41 042053 33
110	GE 7040	UUDDIA	INCO E A AO	1040071	IN the last manifely P / Total
					40042022 03
21	958008	996608	991400	1038600	39041991 30
122	058060	mane al	061471	102X52X	37/041930(3)
124	OF SIM	onhenz	1001507	1102X402	13014103717
125	958131	996587	901543	11038450	20 24.09
26	958161	996582	961579	1038420	34041838 0
128	OEX222	DOLETT	りのてんたの	1103K240	33 041807 30
29	958253	996566	961686	1038313	131/041/40
30	958283	996561	961722	1038277	30/041716/00
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	A PROPERTY.	(14)	49)		
Sinc	comple.	Tang.	Tangent	com	r com, ar
95838	3 996561	961722	1038277	300AT7	O COO (C
95831		ASSESSED FOR THE PARTY.	1038241	29 04168	0003438
95834	4 996551	961794	1038206	40 04165	5 0004 0
95837		961829	1030170	27 Q4 I 62	4000
95843	A COLD -	961900	1038099	26 04159 25 04156	4 003450
958466	996530	961026	1028062	24 04152	2 003 (
958496	1999524	961972		-314150	2.0002476
958527 958557	996519	90 ZU(17)	1037992	404147	2,002480
95834 95837 958436 958436 958436 958436 958496 958557 958587 958648 958678 958708	996508	962078	037921	-T-T4	003485
958617	996503	962114	037885	0000	003406
958648	996498	62149	0378501	8041351	
958708	996487	62220	037814	7041321	003506
258738	996482	62256 I	037743 1	9041291 5041261	
958768	996477 9	62291	037708 1	4 041231	002522
958828	996471 9 996466 9	62326 1	037673 1	3 041201	003528
03 19700581	996461lo	62308 10	37637 1	041171 041141	003533
270008	990456 9	62432 10	37567 10		003543
958918	996450 9	62468 10	37531 9	041081	003540
958978	96445 96	2503 10	3/495 8	041051	203554
177900019	190434100	2574 10		041021	03550
279030	90429 96	2609 10		040961	03570
959068 9	96424 96	2644 10	37351 4	040931	03575
77912019	96418 96 96413 96	2714 10:	37320 3	0400010	02581
9591580	96407 96	2750 102	7249 1	040841 0	03500
Cina	96402 96	2785 103	7214 0	04081200	03597
comple. S	Ine com	ple. Ta	ing. 67	2 (0.5)	
1 141			D		-
and the same	Keylenin		No. Contract		A.

13			Tang.		of fine of fin
10	959187	996402	962785	1037214	60 040812 003
	959217	996397	962820	1037179	59 040782 003
10	050217	996291	962855	1027144	5810407521002
3	959276	996386	962890	1037109	57 040723 003
1 4	959300	006275	962960	1037074	56 040693 003 55 040663 003
0	959305	996364	962020	1026060	54 040634 003
16	050425	996356	963965	1036934	52 040574 003
6	050454	996354	963100	1036800	51 040545 003
118	959484	996348	963135	1036864	50 0405 15 003
17	959513	996343	963170	1036829	49 040486 003 48 040456 003 47 040427 003 46 040397 003
12	959543	996337	963205	1036794	48 040456 003
13	959572	990332	063240	1036759	46/240207 202
14	050621	006221	062200	1036600	45 040368 003
		-		The second second	44 040339 003
17	959340	996310	963379	1036620	43 040309 003
168	059719	996305	962414	1036585	42 040280 003
19	959748	996299	963449	1036550	41 240251 003
					40 040221 007
21	959807	996289	993518	1036481	30040192 007
22	959836	996283	962553	1036446	38040163 303
13	959800	006272	062622	1036412	36040133 003
25	959024	996267	963657	1036342	35 040075 003
24	050052	006261	06260T	1026208	24 040046 302
27	959982	996256	963726	1036272	33 040017 001
28	960011	996250	963761	1036238	34 040046 007 33 040017 007 32 039988 003 31 039959 003
29	960040	996245	963795	1036204	31,039959 003
30	900009	996239	903830	1030109	30 0399301003
	Sine	Sine.	Tangent comple.	Tang.	66

A	and the	San Park) · /	the same of the same
Sine.	Sinc comple.	Tang.	Tangent comple.	of line of in. co
0 960069	996239	963830	1036169	30039930003760
960099	996234		1036135	29 039900 003765
960128	996228	963899		28 039871 003771
960157	anda.	963933	1036066	27 039842 003776
960186	990217	903968	1036031	26 039814 003782 25 039785 003787
960214	THE RESERVE OF THE PERSON NAMED IN	964002	1025062	
960243	996206 996201	964037	1035962	24 039759 003793 23 039727 00270
060201		964105	1035894	22 039698 00380
960330	996190		1035859	21 039669 00380
960359	996184	964174	1035825	20 03 9640 00381
960388	996179	964209	1035790	19039611 003820
960416	996173	964243	1035756	18039583 003826
	996168	964277	1035722	16039525 00383
960474	996156	964312	1035652	15 039496 00384
-	996151		1035619	14 039468 00384
960531		964380	1035585	1303943900385
960587	996140	E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1035550	1203941000385
960617	996134	964483	1035516	1103938200386
960646	996129	964517	1035482	10039353 003870
960675		964551	1035448	9039324 003876
2960703		964585	1035414	7039296,003887
960732	996106	964619 964654	1025246	603923900389
960789	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA	964688	1035311	5 039210 00389
	996095		1035277	4 039182 00300
960846	996089	964756	1035243	3039153003910
3960874	996084	964790	1035209	2039125 003919
	996078	964824	1035175	1 039097 003921
960931	990073	964858	1035141	0039068 003936
Sine comple.	Sine.	Tangene comple.	Tang.	66
-	18.		M	

34 Si	Lan	Sine compl.	Tang.	Tangent,	com, at	
STREET, STREET, STREET,	28000		- 0	TOOK TAT	6002006	8 0020
The second second			954858	The second second	60 03906	AND DESCRIPTION
1 960	9599	96067	964892		5903904	
2960	9889	96061	964926	10350/3	5803901 57 03898	2 00304
2961	0169	90050	964960	1037039	56 03895	5 0020
4961	94417	95050	954994		55 0389	
			965028		1.5	A COLUMN
6961	101	95039	965061	1034930	54 03889	70,0020
7961	1299	96033	965 129	102 1870	20388	12 0030
8901	13/1	06022	065 162	1034836	51 0388	14 0039
10061	213	96016	965163	103480	500387	86 0039
11106	1242	206010	065221	102476	49 0387	57 0030
12 06	270	99500	05426	103473	1 8 0387	29 0039
12 96	1298	995999	965298	103470	4 +8 0387 1 47 0387	01 0040
11490	1326	99799	190533	2 203400	140200	13 12212
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1696	1382	99598	2 96540	0 103459	9 44 10386	17 0040
11706	TAKO	00597	コロカミルス	21103470	ひはないとうひう	Contraction of the last of the
IIXIOA	142X	99597	4100540	71104454	2179-24	ne special Headway
1996	1400	00405	006552	4 103446	841 0385	05 00 to
						177 0040
21 90	1522	20504	8 06560	0103145	7 38 038	49 0040
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2406	1605	99593	6 96566	9 10343	30 36 038	394 004
25 96	1633	99593	1 96570	10343	97 35 038	366 004
26 06	1666	9959	5.9657	6 10342	63 34 038	338 OCH
27.96	1684	14477	993570	9 10342	301231228	
The second secon	1717	120591	3'055X	22110241	00 34 27	STATE OF THE PARTY.
100 100 100 100	51744	9959	08,9558	36 10341	63 31,038	227 004
30 9	51772	99790	The second second		29 30 038	
	Sine	Sinc	Tanger		g. 65	2,82

Sine.	Sinc	the same of the same of			
		Tang	Comple.	of fine.	of fin co
961772	995902	965870	1034129	30 038227	004097
				29 038199	
61 828	OOSXOC	065027	1024062	120 02817	1004109
961855	995885	965970	1034029	12/103814	1004115
961883	995879	966004	1033995	26 03811	2004126
961911				25 03808	
961938	995867	966070	103392	24 03806	2004132
961966	99580	1966104	103389	23 03803 222 03800	6004143
961993	99797	006617	103380	821 03797	8 004149
006204	99584	4 96620	103379	5 20 03795	1 004155
	-0	8 06622	102276	21903792	2004161
1 962076 2 96210	00582	206627	0102272	011802789	0 004107
206272	199582	706620	4 102269	5 17 03780	8004172
406215	8199582	1 96633	71102360	2 10 03784	100410
5 96218	6 99581	5 900 37	0103302	917 03/01	3004104
6 96221	3 99580	9 96640	3 103359	6 14 03778	6004190
296224	0199580	3,96642	7 103350	12 3 1937 /	9004190
96226	8 99579	7 96647	0 103352		1 004303
			3 103349		4 004207 7 004213
	-	-	6 10334	2	A CONTRACTOR OF THE PARTY OF TH
96235	09957	10 96656	9 10334	7 7 7	19 004219 22 004225
96237	0057	18 0666	10333		05 004231
14 06242	1 9957	62 06666	9 10333		68 004 237
15 96245	9 9957	6 96670	02 10332	5 9375	40 004243
1	36 9957	1 9667		64 4 0375	13 00424
		49 9667	12 33	3 9374	86 304254
401	10 9957		01 10331	08 2 0374	59 004260
399625	9957		34 10331	65 1 0374	32/004260
009625	94 9957	27 9668	67 10331	32 00374	05 004277
Sine	Cin	Tanger comple	Tang	1 60	

35 Sine.	Sine compl.	Tang.	Tangent compent.	1	com.ar.	of fin. c
0962594	BRANCH WHITE		THE RESERVE THE PERSON NAMED IN	60	037405	00127
1 962621	995721	966900	1033099	59	037378	00,427
2962648	995715	966933	1033066	58	037351	00428
3 902676	995709	966966	1033033	27	037323	00429
5 962730	905608	900999	1033000	25	037260	00420
					The second second	Commence of the last of the la
6 962757	995686	967007	1032935	54	037216	00431
8962810	995680	967120	1032860	52	037189	00431
9962827	995674	957163	1032836	51	037162	00432
10,962864	995668	967196	1032803	50	037135	00433
11962891	995662	967229	1032770	42	037108	00433
12 962918	995050	967261	1032738	48	037081	00434
13 962945 14 962972	995644	067227	1032705	16	037027	00125
15 962998	995638	907360	1032620	45	037001	00436
16 963025					-	The same of the
17063052	995026	967425	1022574	43	036947	00437
10963070	995020	967458	1032541	12	030920	00437
17/903 105	997014	057491	1022508	41	030004	00430
20 963132					030007	004391
21 963159	995002	967556	1032443	39	036840	00439
22 963185 23 963212	995590	907589	1032410	30	036814	00440
44 963239	995584	967654	1032378	26	036760	00441
25 963265	995578	967686	1032313	35	036734	00442
26,963292	995572	967719	1032280	34	036-07	00442
37,963318	995500	967752	1032247	22	020081	100443
38 963345	995500	967784	1032215	22	036654	00143
20 062329	005548	967817	1032182	31	036628	00449
30 963 398	27,140	¥2 6049	1032150	20	-90001	
cempi.	Sinc	complem.	Tang.	64	THE .	1049

ğ		1		27	7. 1. 1. 1. 1.	
Ì	Sine.	Sine temple.	Tang		of fine .	of fin co
20	263398	994548	967849	1032150	30 036601	004451
	106242	005542	2106788	1022117	29 026575	004457
м.	1060 400	IUUS S 20	1007/01/	いしいフクロスを	140 EJ205 / A	V44021
40	1002475	リレンフラスし	AUD / UA'	// I UZ ZUS 2	27 036522 26 036495	
34	1903504	995518	968011	1031988	25 036469	004481
	1-1	DOORE TO	DOGRAM	ITARTARE	24 026442	HEIGHAX7T
30	963582	995506	968076	1031923	23 036416	004493
26 28	963600	995500	968109	1031890	23 036416 22 036390	004499
					21 036363 20 036337	
40	903662	997400	9001/3	1031820	1003633/	204512
41	963688	005476	068228	1031793	19036311 18036285	004522
	ING STAT	1995420	11005270	11021720	11/10/2025	المحر وحوال
27.	062765	11995404	ロロロカスロス	11021000	110 020222	CC4733
15	963793	99545/	904335	1031004	15 030200	00474
16	962810	995451	968467	1031622	14 036180	004548
7	963845	995445	1968400	1031599	13 036154	004554
18	963871	993439	068464	1031567	11 036101	
0	062824	995427	968496	1031535	10036075	
				1031470	9036049	STATE OF THE PARTY AND ADDRESS OF THE PARTY AN
2	963976	995415	968561	1031438		
13	964002	995409	968593	1031406	7,035997	
4	964028	995402	968625	1031374	6035971	
_		-		1031342	5 035945	
				1031310	3 035893	204009
				1031278	2 035867	004621
				1031213	1 035841	004627
Ó	964184	995366	968818	1031181	0035815	004633
-	Sine emple.	Sine.	Tangent comple.	Tang.	64	and the state

3	and the same of	Sine	1 19:00	Tangent	12	. com, 4.	tcom le
20	Sinc.	comple.	Tang-	com ple.		of fine	of fin. co
0	964184			1031181	60	035815	004633
1	964210	995359	368850	1031149	59	035789	001610
2	964235	995353	968882	1031117	158	035764	334646
13	964261	995347	968914	1031085	157	1035738	304652
4	964287	995341	958946	1031053	150	035712	204658
15	964313	995335	958978	1031021	12	035086	774664
6	964339	995328	969010	1030989	54	035660	20+671
7	964365	995322	969042	1030957	53	1035634	204677
0	954390	995310	260106	1030925	2	035009	204683
10	904410	997310	060138	1030861	50	037707	
50.00	The second second	-		_	_		
II	96440	995291	060201	1030830	13	03555	204702
130	264510	005285	069233	1030798	17	035180	204708
100	064544	995279	909205	1939734	.40	235455	1224720
15	964570	995273	969297	1030702	+5	035429	734726
				1030670			
17	964621	995260	969361	1030638	43	035378	224739
18	964547	995254	969392	1030607	142	235352	27745
10	964672	995248	969424	1030575	41	735327	754751
20	954698	995241	959456	1030543	40	235301	DO +758
21	964723	995235	999488	1030511	20	235276	704764
22	961749	995229	969520	1030179	138	035250	204770
23	954774	995223	969551	1030448	31	035225	734770
24	904300	995210	060615	1030416	25	735199	204783
100	The second second				-		
20	964850	995204	969648	1030353	122	035140	704795
				1030289			
				1030258			
				1030225			
1-1	Sine somple.	Sine.	Tangent comple.		1 -		50 01818

		•	57 9		,
Sinc.	Sine compl.	Tang.	Tangent complem.	of fine	of fin. es
964952	795179	969773	103 0226	30 035047	004820
964978	195172	969805	1030194	29 035021	004829
965003	795166	969836	1030163	28 034996	004833
965028	995160	969868	1030131	27 034971	004839
965053		969900	1030099	26 034946	994846
955079	THE RESERVE		1030058	- A	004852
			1030036	24 034895	004858
765129	995134	969994	1030005	23 034870	004865
			1029973	22 034845	004871
965 (30	995122	070080	1029942	21 034819	
	-		F. U. C. CALLEGE ST. Sec.		-
965230	995109	970120	1029879	19034769	004890
905255	995105	970152	1029847	18 934744	001003
265205	205000	970103	1029816	16 034694	CO1903
265330	005084	070246	1029752	15.034669	004915
_				14 034644	
255280	995077	070200	1029721	13 034619	024028
965405	995065	970240	1029659	12,034504	004935
965430	995058	970272	1029627	11 034569	004941
965455	995052	970403	1029596	10 034544	004947
_			1029565	9,034519	-
965505	295029	970466	1029533	8,034494	004960
965530	995032	70407	1029502	7.034469	00,1966
965555	095025	970528	1029471	6 034444	004973
965580	995320	970560	1029439	5 034419	004979
065605	995013	70591	1029408	4 034394	004986
05630	995007	270622	1029377	3 034369	004993
05655	995000	973654	1029345	2 034344	004999
65679	994994	70685	1029314	1 034320	005005
	994988	-	029283	0034295	00,011
Sine compl.	Sine.	angent.	Tang.	63	

965729	994981	970716	Tan gest complem 102928:		of fine.	16
965729	994981		102928	160	00.000	The state of the state of
965754	994981	-	-	\sim	034295	0050
965754		970747	102925	259	034270	0050
	994975	970779	1029220	158	034245	0050
905770	994908	970810	102918	3157	034221	0050
065828	994902	070872	102012	785		
7		-		-		2 Breezes
065877	994949	970903	102006	24	034140	0050
965902	994936	970966	102903	352	034007	2050
965927	994929	970997	102900	2/51	034072	20050
965951	994923	971028	102897	1 50	034048	0050
965976	994917	971059	101894	049	03402	30050
956000	994910	971090	102890	9 48	033999	20050
966025	994904	971121	102887	947	033974	10050
966074	1004801	071182	102881	64	02202	0051
	-				THE REAL PROPERTY.	
966122	994804	1071245	102875	444		
966148	994871	971276	102872	3143	023851	2051
900172	1994804	.071207	1402009	441	033827	0051
966197	994858	971338	102000	40	033802	0051
966221	994851	971369	102863	039	033778	0051
966245	994845	971400	102859	11126	וחחחות	2051
900270	994838	971431	102850	37	033729	
066210	994032	9/1402	102850	6 36		
-			-	-127	33	No.
066205	004011	MAN HER	TO2X44	4	033050	200
966391	994806	971585	102841	155	023608	0051
900410	994799	4971010	102030	721	033583	0052
965440	994792	971647	102835	30	033559	10052
Sine		Tanconi		1		500
	965803 965828 965828 965902 965902 965951 965976 966000 966025 966074 966123 966143 966172 966221 966245 966319 966319 966319	965803 994962 965828 994955 965877 994942 965902 994929 965951 994923 965976 994917 966025 994916 966025 994904 966074 994897 966148 99487 966172 994858 966172 994858 966197 994858 966221 994858 966319 994858 966319 994825 966319 994825 966319 994825 966319 994825 966319 994825 966319 994825	965803 994962 970841 965828 994955 970872 965877 994942 970903 965902 994936 970966 965927 994929 970997 965951 994923 971028 965976 994910 971090 966025 994904 971121 966050 994897 971152 966074 994891 971183 966123 994877 971245 966123 994884 971276 966172 994864 971307 966197 994858 971245 966221 994851 971269 966221 994879 971616 966319 994825 971402 966319 994825 971493 966319 994812 971555 966316 994799 971616 9663440 994799 971616	965803 994962 970841 192915 965828 994955 970872 102912 965877 994942 970933 1029096 965902 994936 970997 102909 965951 994929 970997 102909 965951 994923 971028 102897 966000 994910 971090 102890 966025 994904 971121 102887 966074 994897 971152 102884 966074 994891 971183 102881 966099 994884 971214 102878 966123 994877 971245 102878 966124 994884 971307 102878 966172 994864 971307 102869 966197 994858 971338 102866 966221 994851 971369 102869 966245 994845 971400 102859 966319 994825 971400 102859 966319 994825 971493 102850 966343 994819 971524 002847 966363 994819 971525 102844 966369 994819 971585 102844	965803 994962 970841 1929158 56 965828 994955 970872 1029127 55 965877 994942 970933 1029096 54 965877 994942 970934 1029065 53 965902 994936 970966 1029033 52 965951 994923 971028 1028971 50 965951 994917 971059 1018940 40 966000 994910 971090 1028909 40 966025 994904 971121 1028876 47 966074 994891 971183 1028816 45 966099 994884 971181 1028876 47 966123 994877 971245 1028816 45 966123 994877 971245 1028826 42 966124 994884 971307 1028561 40 966127 994858 971338 1028661 40 966221 994851 971276 1028630 30 966221 994854 971307 1028630 30 966221 994854 971400 1028591 38 966319 994825 971400 1028591 38 966319 994825 971401 1028566 30 966319 994825 971401 1028566 30 966319 994825 971401 1028506 35 966319 994825 971403 1028506 35 966319 994806 971585 1028444 39 966310 994806 971585 1028444 39 966340 994792 971647 1028352 30	965803 994962 970841 1929158 56 034196 965828 994955 970872 1029127 55 034171 965453 994949 970903 1029096 54 034146 965877 994942 970934 1029055 53 034122 965902 994936 970966 1029033 52 034097 965951 994923 971028 1028971 50 034048 965976 994917 971059 1018940 49 034022 966000 994910 971090 1028909 48 033999 966025 994904 971121 1028876 47 033974 966074 994897 971152 1028847 46 033949 966074 994894 971183 1028816 45 033929 966074 994894 971124 1028875 44 033939 966123 994877 971245 1028875 44 033939 966124 994894 971307 1028692 41 033827 966172 994864 971307 1028692 41 033827 966197 994858 971338 1028611 40 033802 966221 994854 971307 1028692 41 033827 966319 994825 971400 1028591 38 033754 966319 994825 971493 1028568 37 033752 966319 994825 971493 1028568 37 033752 966319 994825 971493 1028506 35 033681 966343 994819 971524 0028475 34 033656 966369 994812 971585 1028444 39 033656 966369 994812 971585 1028444 39 033656 966340 994792 971616 1028352 30 033758

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994792	971647	1028352	30 033559	005207
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994779	971709	1028290	28 033510	005220
994773	971740	1028259	27 033486	005226
994766	971770	1028229	26 033463	
_				005240
994753	971832	1028167	24 033414	005246
994746	971863	1028136	23 033389	005253
994740	9/1894	1028105	22 033365	005259
994/33	971924	1028044	20 022217	005266
	7 250			Acres Contracts
994720	0720-4	1028913	19 033293	005279
			10033209	005286
994602	972108	1027801		
Committee on the last	with the same			
994680	072170	1027820	12 022140	005312
994672	972200	1027700	12 022125	005302
994667	972231	10277681	11 033101	005222
994660	972262	1027737		
	-			THE PERSON NAMED IN
994647	972322	1027576	8 033020	004253
994640	972353	1027646	7 033005	005350
994633	972384		6032981	005366
294627	7724141	1027585	5 032958	005372
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8 Sinc.	Sine sampl.	Tang.	COMPLET			A CONTRACTOR OF	31
The second	CONTRACTOR OF THE		10274	32/00/	34035	744	67
7700	001586	97259	10274	0258	03281	100541	67
1967184	004580	97262	10273	7139	034/9	7/00543	67
-1067227	19947	7171		TAISO	1012274	$\Delta 1 \cap (S A)$	6
3967259	99456	3 97265 6 97268	9102/3	8055	03272	0054	6
496725	99455	997271	9102/	-	0226	060004	4 6
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1 0100725	U.TZTI.	11/11	10	THE WIS	1 8 12 24		
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30	67866	994396					7.76
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7	compl.	-		1.34			
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67866				30032133	005610
67880	004282	972506	1026493	29 032110	005617
MARA	1004270	072520	11020403	40 N 2007	~ 1027
67026	994369	972566	1020433	4/03/2003	003030
67959	994302	973590	1020403	201032040	2503/
67982	994355	111		25 032017	
68005	994348	973656	1026343	24 03 1994	005651
68028	994341	973687	1020312	23 031971	cososo
6005 1	994334	9737.17	1026252	22 03 1948	005672
68008	994327	973747		20,031901	
	_		and distance has		Accesses to the same
68121	004200	1073837	1026162	19 03 1878	005692
68167	994300	072867	1026132	17 03 1832	005699
68190	991293	973897	1026102	16 031886	005706
68213	991230	973927	1026072	15 031709	005713
68236	994279	073957	1026042	14031762	005720
58259	994272	1973986	1026013	13031740	005727
958282	99426	974016	1025983	1203171	007/30
108305	199425	974046	1025953	111031094	00574
District of the last of the la	A Characteristics		1025927	The second	-
968351	99424	974100	1025893	903164	
06820	199423	974130	102586	7 03160	
968120	09422	3 07410	102583		
96844	299421	6 27422	102577	5 03155	7,00578
	-	9,97425		4 4 03153	400579
95848	99420	2 97428	102571		
95,851	199410	97431	5102568	4 2 03148	
96853	4 99418	8 97434	102565	4 1 03146	5 00581
90855	799418	1 97437	102562	4 0'03144	2.00581
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0	Sinc	Sine comple.	Tang.	Tangent	of time of
	-	STREET, SQUARE, SQUARE,		1025624	60 03144200
2	08557	994181	974375	BAD BOLL BALL	
		994174			59 03 142000
29	68802	994167	974434	1025505	58 031 397 00
		994160		1025535	5603135100
40	08040 48670	994153 994146	074521	1025475	55 03 132900
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22	08793	994139	974553	1025416	53 031283 00
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00	68784	994111	974672	1025327	50 03121500
- 10	10011	994104	THE RESIDENCE OF THE PERSON.	1025297	49 03119300
		994097		1025268	48 031170 00
39	68852	994090	974761	1025238	47 03114700
		994083			46 03112500
59	68897	994076	974820	1025179	The second second
69	68919	994069	974850	1025149	H 031080 CO
79	68942	994062	974880	1025119	43 031057 00 42 031035 00
99	08964	994955	974909	1025090	41 03101200
212	60000	994048	1974939	1025031	40 03099000
7-1	-	994040	_		39 03096700
19	69032	994033	974998	1021071	38 03094500
200	60074	994020	975028	1024971	37 33092200
2 2	60000	994012	075087	1024912	36 030 200 00
		994005		1024883	35 03087700
-		993998	-	1024853	34 03085500
		993991		0-	33 0308330
		993983		-02-704	32 0308100
111		993976	1000	1024765	31 03078800
9	69233	993969	975264	10:4735	30/030766/00
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Sine	Sine compl.	Tang.	Tangent complem.		of fine	of in.
6022	CONTRACTOR OF	975264	102 4735	30	030766	00602
6925	1		1024706		030743	
6927	AND REPORT OF THE PARTY OF THE		1024676	28	030721	
			1024647		030699	
6932			1024617	26	030676	
6934	993933	925411	1024588	25	030654	00606
6936	7993926	975440	1024559	24	030632	00607
6938	993919	975470	1024529	23	030610	CO608
6941	2 993912	975499	1024500	22	030587	00608
6943	4 993905	975529		21	030505	00609
6945	6 993897	975558	1024441	20	039743	00010
	8 993890				030521	STORY OF THE REAL PROPERTY.
6950	993883	975617	1024382		030499	
0952	993876	975646	1024353		030477	
6954	7993861	975675	1024324	15	030454 030432	
40=0	-	20/00	1324294	3		far hade 14
6061	993854	975734	1024265	14	030416 030388	
6962	2002840	975703	1024206	12	030366	
6965	993822	975822	1024177	11	-	00616
6967	993825	975851	1024148	10	030322	Section 1 and 1
69690	993818	275880	1024119	9	030300	00619
6972	1	975910	1024089		030278	
6974	993804	975939	1024060		030256	
69765	993796	975968	1024031		030234	
9787	993789	975997	1024002	5	030212	00621
69809	993782	976037	1023972		030190	
99831	993774	976056	1023943	3		00622
60875	993767	976085	1023914		030146	
69807	Inna-	976114	1023085		030124	
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997028	99362	097666	8 10233 7 10233	32 42 02	9733 9711 968a
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1	1618	Sine	Tang.	Tangen	32 5 33	of fine of the
3	3 10000	200000	077877	10221	22 60	028816 0066
	097118	9933	077005	10220	94 59	038795 0067 028774 0067
	197120	00229	977934	10220	65 58	028774 006
. 1	407120	1777	1	10220	7055	0287320067
1	5 97128	8 995 200	1	and the last	WT -	028600 000
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3	99713	2 002 22	097816	3 1021	8365	028648 006 028627 006 028606 006 028585 006
	10 9/13	14 9932	2 07819	1 1021	808 4	02858500
	13 97 14	26 09321	97822	0 1021	7794	8 028564 00 7 028543 00
	12 9714	56 9934	07 97824	81021	7744	7 028543 00 6 028523 00
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	17971	39 995				
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	23971	663,993	30 970	22:10	21438	36 028315
	120177.4	705,993		190 10	21.109	REAL PROPERTY.
	13/2	doc acs	The second linear second		21281	
	20,9/1	725 993	0991978	646	2135	33 028253 32 028232
	29 97	787 993	084 978	703 10	3126	830 028191
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- 1	1 3	mple, Si	ne. Cor		ang.	12.0

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Contract Con	-	978731	1021268	30	028191	00692
7 6	202060	- CONTRACT	1021220	20	728170	noton.
961829	002061	078788	1021211 1021183 1021154	28	028150	006025
901049	002052	078816	1021182	27	028120	006046
061800	992045	978845	1021154	26	28100	006954
961911	993037	978873	1021126	25	38c88	006962
			1021098	24	28068	006066
001931	993022	978020	1021069	22	28047	006077
061072	003014	978958	1021041	22	28027	006085
061002	993006	978986	1031013	21	28006	006992
962013	992998	979015	1020984	200	27986	007001
		-	1020956		The second second	
062054	992983	979071	1020928	186	27945	007016
962075	992975	979099	1020000	170	27924	007024
962095	992967	979128	1020871	160	27904	007032
962116	992959	979156	1020843	150	27883	007040
962136	992952	979184	1020815	140	27862	007047
962157	992944	979212	1020787	130	27842	007055
962177	992936	979241	1020758	120	27822	007063
962197	992928	979269	1020730	110	27802	
962218	992920	979297	1020702	100	27781	007079
962238	992912	979325	1020674	90	27761	007087
962258	992905	979353	1020646	80	27741	007094
962279	992897	979381	1020646	70	27720	207102
962299	992889	979410	1020589		27700	
902319	992881	779438	1020501		27680	Mark Address of the last
962340	992873	779466	1020533	40	27660	207126
952360	992865	77949	1020505	30	276390	07124
902380	792057	979522	1020477	20	276190	07142
062420	202842	79550	1020449	100	27570	07150
Sine	CONTRACTOR OF COMME	79578	020421	90	2757910	-/17/
compl.	Sine.	angent	Tang.	. 2		

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2 Sine	Sine comple.	Tang.	Tangent comple.		of fine	of tit.
097242	0 992842	979578	1020421	60	02757	0071
1 97244	1 992834	979607	1020392	39	02755	80071
297246	1 992826	979635	1020364	58	02753	80071
3 972+8	1 992818	979663	11020330	57	02751	8 0071
507252	1 992810	070710	1020280	50	02747	80071
	A STREET, SQUARE, SQUARE,		PROPERTY OF STREET	-	W. March and Co.	-
7 07256	2 992786	979747	1020252			
8107258	2 992778	070802	1020190	52	02741	700 2
	2 992770		1020168	51	02739	7 0071
10 97262	2 992762	97985	1020140	50	02737	7,0071
STATE OF THE PERSON NAMED IN	2,992754		1020111	49	02735	7 0072
12,97266	2,99274	979915	1020034			
13 9726	12 99273	1979943	1020056			
	99273					7 0072
TO A CONTRACTOR	22 99272			1		/ 00/
	12 99271					
18 0727	32 99270	980055	101994			
19 97280	99269	080111	101088	4	02719	7 007
20 9728	2 99268	1980130	101986	40	02717	7 0073
STATE PRODUCTION	2 99267		THE REAL PROPERTY AND ADDRESS.	220	02715	7 0073
	2 99265					
	32,99255					
A CONTRACTOR OF THE PARTY OF TH	02 99265	The second second	The second of the second of		02709	70073
	22 99254	4			02/01	100/1
	12 99263				02705	7 0071
	2 99252			A STORES	02703	
20,07200	99261	2080302	101963	131	02600	80071
30,9730	1 99260	2 082418	1019581	30	02697	8 00739
Sine	Cina	Tangen	CH STOTING	1	A . 2	1111
compl	, Sine.	le omple		15	7	Lamen

1	CALL CONTRACTOR							
32	Sine.	Sine comple.	Гang	Tangent comple.	of fine	com, ar		
30	97302	992602	980418	101958	3002697	8 00739		
-	973041	Manager St. 15.		101955	A PARTY MANAGEMENT OF THE PARTY NAMED IN			
32	973061	992586	980474	101952	5 20 02093	0 007AT		
33	973081	1992578	980502	101949	7,27,02091	8 00742		
34	973100	992570	980530	101946	26 02689	2 00742		
				101944				
36	973140	992554	980985	101941	24 02685	900744		
3/	973100	992546	980613	101936	23 02683	900745		
20	973199	992530	080660	1019330	21 02680	0 00746		
40	973219	992522	980697	101930	3002678	0 00747		
41	973239	992514	980724	101927				
42	973258	1992505	980752	1019247	18,02674	1 00749		
13	973278	992497	980780	1019219	17,02672	1 00750		
++	973298	993481	980808	1019191	16 02670	2007510		
	973317	-			15 02668			
45	9/333/ 072286	9924/3	980863	1019130	14 02656	2007520		
18	973376	992457	080010	1019080	12,02662	3 00754		
195	973396	1992449	980947	1019052	11 02560	3 007550		
50,5	73415	992440	980974	1019325	1002558.	1007555		
115	773435	992432	981002	10.8997	902656			
125	73454	992424	981030	1018959	8 02554			
13	73474	992410	981057	1018959 1018942 1018914	702552	007583		
1412	73443	992400	981085	1018836	5 026486	007591		
				SECTION AND ADDRESS.		1		
70	72552	992391	981141	1018858	3 02644			
8.9				1018803				
9,9				1018775	1 026405	007532		
	73610			1018748	0,926329	007640		
1	Sine comple.	Sine.	Tangent	Tang.	97.2	007		

33 Sine.	Sige compl.	Tang-	Tangent complem.	of fine. of fin, ca
	The state of the s	981251	_	60 026389 007640
1973630	992350	981279	1018720	19026369007649
2973649	992342	981307	1018692	58026350007657
4 073688	992334	981334 981362	1018665	57026330007665
5 973707	992318	981389	1018610	55 026292 007681
6973727	992309	981417	1018582	54 026 272 007690
7973746	992301	981445	1018554	53 026 253 007698 52 026 233 007706
9973785	992285	981500	1018499	51 026214 20771
10973804	992276	981527	1018472	50 026194 00772
11 973824	992268	981555	1018444	49026175 00771
13073843	992260	981583	1018416	48 026 150 00773 47 026 137 00771
114 072882	002242	981628	1018251	149026117100776
15 973901	992235	981665	1018334	45,026798,00776
16 97 3020	992227	981693 981720	1018279	44 525070 50777
18973950	992210	981748	1018251	420260400076
19973978	992202	981775	1018224	41 026021 00779
THE RESERVE OF THE PARTY OF THE		981803	STATE OF THE PARTY	THE PERSON NAMED AND POST OF THE PERSON.
21 974016	992105	981858	1018141	725983 00781 38 925964 00781
23 974055	992169	981885	1018114	37,025014,007820
24 974074	992160	981913	1018059	35 225 925 00784
No. of Concession, Name of Street, or other Persons, Name of Street, or ot	The second second	The second second	0018031	Principle of the Control of the Cont
27 974131	992134	981995	1018004	33 725 868 70786
29 974160	992127	082023	1017976	32 025 849 00787
20 974188	992110	082078	1017921	11 025830 00788 25 025811 00788
Sine	Sine	Tangent	Tang.	exist and
compl.	31114	complem.	. 41.8.	The same of the same of

Sinc	comple.	Tang.	Comple.		of fine	of fig.
		082078	1017921	300	25811	007893
	992102		1017894			007897
07/1227	992093	982122	1017866	280	25772	007906
074246	992085	982160	1017839	270	25753	007914
074265	992077	982188	1017811	200	25734	007922
974284	992068	982215	1017784	Section 19	27/47	007931
974303	992050	982242	1017757	24	25696	007939
974322	992052	982270	1017729	1231	25668	007948
974341	992043	982297	101770	270	25620	007964
974300	992035	982325	1017674	200	25620	007972
	992026	-	ASSESSMENT OF THE PARTY.		OWNERS THE REAL PROPERTY.	Street, or other Designation of the last
974398	992018	982379	1017620	1.00	25582	007000
974426	992009	082424	1017565	17	25563	007998
974454	991993	982461	1017569	160	25545	008006
974473	991984	982489	1017510	155	25526	008015
974492	991976	982516	101748	1140	25507	008033
974511	991967	982543	1017456	136	25488	008032
974530	991959	982571	1017456	120	25469	
アノマンイン	שרעייען	904790	SHOW AND AND ADDRESS.	100	25421	001017
DESCRIPTION OF THE PERSON	-	-	1017374		05450	008068
			1017346		25412	008074
074621	991925	082707	1017292	1 20	25375	008074 008089
974642	991908	982726	101726		25356	
974662	991899	982762	1017237	50	25337	CONTRO
SERVICE PROPERTY.	THE REAL PROPERTY.	The second second	1017210	120	25318	801800
974699	991882	982816	101718	190	25300	008117
974718	991874	982844	1017154		25281	008134
	991865			S	125243	00314
974756	991057	The second second	1017101		ארי כי	kalanink +
Sine	Sine,	Tangent omple.	Tang.	56		303

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E_{i}	м	20	7.9	820
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0	Com. e	The ar	- 00		Tangen	ang.	Sine compl.	Sine.	d
S	of fin. a	nne.	ol		complen	0-0-0	-	End Chine	
97	33814						991857		
7	201814	5225	902	75	101707	82000	991848	4774	115
97	0.84	200	702	100	101701	82980	991848 991840 991831	74793	2
97	20816	5160	602	925	101699	82007	91823	74830	49
4	20818	5150	5 02	55 5	101696	3034	991814	74849	59
	Service State	*PPW	100		OTEM	82062	DOT REA	12060	20
	20820	1112	3 02	105	101691	3989	91797 191789	74886	719
97	OC821	509.	202	33 5	191689	3116	91789	74905	89
97	20820	5075)	1102	1015	LOTODE	13145	791780	749241	919
77							91771		
77	20823	5038	902	114	08080	3196	91763	7496 P	北
97	90824	5019	700	はい	01.674	3252	91754 91746	74980	30
97	20824	1982	672	20 4	01572	33279	91737	75017	40
97 97	20827	195.	5 72	93 4	01669	33306	91729	75034	50
97	20800	1015	4 72	56 4	101666	83333	91720	7505A	60
97	2200	1022	2172	28 4	101652	52201	001711l	10072	7)0
97	20820	ROOM	2102	0150	01001	23300	791703	75001	99
97	20820	180C	1102	411	01053	33:17	791604	75109.	219
97	20831	187	- 02	- 1	2.47	2016	91685	71.40	- 12
97	००भुव	1853	02	1030	01650	23409	991668 991660	19145	2 0
97	00833	1334	700	26 2	01647	33522	201660	75182	30
97	20X24	1707	ובתופ	19150	OT UMA	ひろうちい	ALCO I	7202	7.9
97 97	20834	1770	12	133	01042	53578	91044	75220	2/9
97	20826	1760	4/2	14 2	91639	3605	91624	14230	6 9
7	00827	742	102	7/3	01636	33632	91624 91625 91616 91608	K277	79
7	20838	723	202	1032	01634	3659	91616	5276	019
77	00939	1705	12	331	01031	3686	91608	5295	9 9
17:	00840	687	NO2.	30	01028	24/14	7133		19
S	in all		NI I	1	Tang	meent.	Sine,	ompl.	1

Cine Sine Tanger Com. ar com. ar									
Sinc.	cempl.	Tang.	complem	of tine.	of bo. c				
75212	991599	983713	1016286	20 024687	00840				
117	991590	THE RESIDENCE AND ADDRESS.	1016250	-	1				
777551	991582		1016232	STATE OF THE PERSON NAMED IN	00841				
17:44	991573		1016205	27.02462	A RESERVE AND A				
me 286	991564			26 02461	ELEGENT N. SEG				
775104	991555	982848	1016151	25 02450	00844				
-	MICHIGAN SCHOOL	-		02457	00845				
			1016124	22 0245 = 5	CO846				
			1016070	22 024540	00846				
015477	901521	082056	1016043	21 02452	00847				
775106			1016016	20 02450	00848				
Markey	200	-	and the second	0248	00849				
775514			1015989	802446					
	991494		1015962	SCHOOL SECURITY OF THE PARTY OF	00851				
	991477		1015008	16 02143	O SHOULD SHOULD				
075587		084118	1215081	THE RESIDENCE	0085				
-	Contract of the	-	1011981	14 02 120	0085				
	991459		1017014	12 02427	00854				
975641		984190	1015800	12.02425	800855				
975650		984226		11 024340	000856				
	Sand Street Park	984252	1015746	10 02432	00857				
mehad	91414		TOTETTO	9,02430	COREO				
	991407		1015602	8 02428					
975722	991308	084224	1015665	7 02426	00964				
975750	991389	984261	1015638	6,02424					
7757.68	991380	984388	1015611	179-53 Inches Service March	100861				
77786		984419	TOLEES.	4,02421	200862				
775804		984441	1015958	3,02410	00862				
775822	291354	984468	1015521	2,02417	500964				
779841	291345	984495	1015504	1 02415	300854				
75850	791335	984522	1015477	0024140	000858				
Sine	0	Tangent.	THE PARTY		SINE				
i lamo	Sine.	complem	lang.	3 511	o garner				

comple	Tang.	Comple.	of fi	ne of its	Id
999133	6 964522	1015477	60 0241	40 004	3
THE REAL PROPERTY.	-0	Andreas Barrer	F0004	72 2-04	91
00121	3084576	1015422	58 0241	04 00%	7
3 99130	984603	1015396	57 0240	86 0086	97
99130	984630	1015369	56 0240	68 0086	97
99129	934657	1015342	15 0240	50 0087	1
7 99128	984683	1015316	54 0240	32 000	1/2
99127	1984710	1015280	15310240	14 008	Z
3 99126	984737	1015262	52 0239	90 308	97
991256	5984764	1015235	500239	78 000	1
A CONTRACTOR			Billion Bernarden		1
991238	3984818	1015181			
991229	984844	1015155	40,0239	25 0007	9/
991220	984871	1015128	4612228	300	07
991212	984898	1015101	45 0228	71 200	07
991202	904925	10170/4	14 0200	2000	97
991194	984952	1015047	42 0238	3 3000	97
991185	984978	1015021	42 0228	7 200	97
991170	085022	1014991	41 02280	00 000	97
COTTES	085050				97
			THE RESERVE AND THE PERSON NAMED IN	man I	97
991149	085112	1014887			97
001121	985120	1014860	37 02372	8 2088	97
991122	985166	1014833	3002371	1 308	97
991113	985193	1014806	35/02369	3 2288	97
991104	985219	1014780	34 02367	5 2088	9/
001005	085216	1014752	33 02365	7 70%	97
OPOTOP	985273	1014726	5 z 10 z 3 0 4	0 005	97
991077	985300	1014699	31172302	2 1000	07/
991068	9853201	1014073	1002300	4 000	07/
Sine.	Tangene	Tang.	SA	-100	3
	7 99132 7 99131 3 99130 9 9130 9 9130 9 9129 7 99128 5 99127 8 99124 8 99124 8 99124 9 9124 9 9114 9 9114 9 91104 9 9107 9 9107	7 991327 984549 5 991318 984576 3 991309 984603 9 91301 984630 9 91292 934657 7 991283 984683 5 991274 984710 3 991265 984737 1 991266 984764 8 991247 984791 6 991249 984818 1 991220 984871 9 91122 984898 1 991104 984978 1 991167 985032 1 991167 985032 1 991169 985036 1 991140 985112 1 991131 985130 1 991140 985112 1 991131 985130 1 991140 985112 1 991140 985112 1 991140 985112 1 991140 985112 1 991140 98512 1 991140 98512 1 991140 98512 1 991140 98512 1 991140 98512 1 991140 98512 1 991167 985130 1 991104 985219 1 991005 985226 1 991005 985226 1 991005 985226 1 991005 985226 1 991005 985226 1 991005 985226 1 991005 985226	7 991327 984549 1015450 5 991318 984576 1015450 3 991301 984630 1015369 9 91292 934657 1015342 7 991283 984683 1015316 5 991274 984710 1015289 3 991265 984737 1015262 1 991246 984737 1015262 1 991246 984791 101528 3 991247 984791 101528 3 991247 984791 1015181 1 991220 984871 1015181 1 991220 984871 1015128 2 991212 984898 1015101 1 991104 984952 1015047 9 91185 984978 1015021 9 91167 985032 1014967 9 91140 985036 1014991 9 91140 985112 1014887 9 91131 985139 1014860 9 91131 985139 1014860 9 91104 985119 1014780 9 91005 985246 1014753 9 91077 985307 1014726 9 91077 985307 1014699 9 91068 985273 1014726 9 91077 985307 1014699 9 91068 985226 1014673	7 991327 984549 1015450 59 0241 8 991318 984576 1015423 58 0241 9 991301 984630 1015366 56 0240 9 991292 984657 1015342 55 0240 7 991283 984683 1015316 54 0240 8 991274 984710 1015289 53 0240 8 991266 984764 1015225 51 0239 8 991247 984791 1015262 52 0239 8 991247 984791 1015268 50 0239 8 991229 984844 1015154 48 0239 9 91229 984898 1015101 46 0239 9 91212 984898 1015101 46 0238 9 91220 984971 1015047 44 0238 9 91164 984978 1015074 45 0238 9 91176 985035 1014991 42 0238 9 91176 985035 1014967 41 0238 9 91176 985035 1014967 41 0238 9 91176 985035 1014967 41 0238 9 91176 985036 1014913 30 02376 9 9 1179 985139 1014860 37 02376 9 9 1179 985139 1014860 37 02376 9 9 1104 985112 1014887 38 02376 9 9 1104 985113 1014860 35 02366 9 9 1104 985219 1014780 34 02367 9 9 1077 985300 1014699 31 02362 9 9 1077 985300 1014699 31 02362 9 9 1058 985273 1014726 32 02364 9 9 1077 985300 1014699 31 02362 9 9 1058 985273 1014726 32 02364 9 9 1077 985300 1014699 31 02362 9 9 1068 985273 1014726 32 02364 9 9 1077 985300 1014699 31 02362	991220 984844 101515; 48 023925 08 291220 984871 1015128 47 023907 08 291212 984898 1015101 46 023889 08 291202 984925 1015074 45 023871 08 291194 984925 1015047 44 023813 08 291185 984978 1015021 43 022835 08 291167 985032 1014967 41 023800 08 291167 985032 1014967 41 023800 08 291189 985086 1014913 39 023764 08 291140 985112 1014887 38 023764 08 291140 985112 1014887 38 023764 08 291140 985112 1014860 37 023728 08 291141 985139 1014860 37 023728 08 291101 985139 1014866 37 023728 08 291101 985139 1014806 35 023657 08 291101 985192 1014763 34 023657 08 291104 985219 1014763 34 023657 08 291005 985246 1014752 33 023657 08 291077 985300 1014699 31 023622 08 291058 985326 1014693 31 023622 08 291058 985326 1014673 30 023622 08 291058 985326 1014673 30 023604 08 291058 985326 10

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Sinc.	Sine compl.	Tang.	Tangent complem.		of fine	of fin.es			
76395	991068	985326	1014673	30	023604	008931			
m6172	001050	085252	1014646	20	023580	008940			
076420	991050	905300	1014019	120	22322	7777			
1006 A A Q	IOO TOA T	1025400	1014502	157		200710			
976466	991032	985433	1014566	20	023516	008076			
			1014539			008985			
976501	991014	985487	1014512	24	023480	COROGA			
			1014486						
9/0530	990990	085567	1014459						
076571	9909078	985592	1014406	20	022428	009021			
26500	202060	086620	1014270	To	023410	009030			
676607	990960	085647	1014379	18	023392	009039			
976642	990941	985700	1014299	16	1 2224	IN THE STATE OF TH			
976659	990932	985727	11314272	17.5	JUT	POR SHAP			
006677	000022	A85752	1014246	14	02332	2009076			
976694	990914	985780	1014219	13	02330	009085			
976712	999905	985800	1014193		17-4	1-07-74			
976729	990896	98:853	1014100		02325	2000112			
970747	990833	-	THE PARTY OF THE P	-	-				
976764		285886			02323	7009130			
	990869			100	023200	009140			
	990850		1 2	1 - 2	02318	2009144			
976834	990841	085002	1014006		02316	000148			
	990832	-	-	200	023147	009167			
976860	290823	086046				0009176			
976887	290814	986072	1013927	2	02311	2009185			
976904	790804	986099	1013900	1		009195			
976921		986126		3	102305	009204			
Sine comp!.	Sine,	Tangent.	Tang.	5	iniz i	e tomos.			

1 2000	To the	(70)	1 10	100
6 Sinc.	Sine comple.	Tang.	Tangent comple.	of fine	
0.076021	000705	086126	1013873	60 023078	00% 11
07603	2000	086152	1012847	50 022060	0001
2 076056	990/00	086170	1013820	59 023060	500
2 076073	000768	686205	1013794	58 023043 57 023026	000
419/0901	999750	700450	11013/01	Public Fall Ind Controls	March 174
5 977008	990749	986258	1013741	15 022991	2007
6 977026	990740	985285	1013714	54022973	2007
2 077042	000721	980311	1012088	1731224970	
8 977060	993722	980338	1013001	172/022939	1200
0977077	000712	986365	1013635	71022922	12.52
10977095	990703	980391	1013004	50 022904	
11977112	990694	986418	1013581	19 022887	2093
12,977129	990685	986444	101322	48/02/20/0	9
13 977147	990575	980471	1013740	48 02 2870 47 02 2870 46 22 2835	220
14 9//104	990000	086524	1012175	46 222818	3 3392
15/2//101	99001	200124	10,244	14 022801	2300
10,977198	990648	086577	1013449	43 022801	1 2200
1 7 97 7 2 2 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1	000000	986602	1013396	12 022760	2009
10077250	000720	980029	MOT 33/C	1411044747	7 7 9 9 9
20 977267	990511	986656	1013343	4002272	13093
21 ATTO	anola.	086682	1012217	120022715	100001
22,977301	000502	986709	1013290	38022598	200
23 977319	990583	986735	1013264	38022508 37022681) DOG!
44 <i>9112</i> 30	10005 72	1900704	101704	Challed ShieldStrice Studies	14 Biologica (1)
45 977353	990554	900700	1013211	Sales and a	STATE OF THE PARTY NAMED IN
26 977370	990155	986815	1013184	34 022624	1 2004
27.0772K7	DOORAS	1986841	1013148	33102 201	
28 977404	090536	930368	1013131	32 02259	2004
29,977421	990527	086020	1013105	31 022578	0091
977430	90517	Tannan	T		-
somple.	Sine.	comple	Tang.	153	CD(2 of

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sine '	Sine comple.	Tang	Tangent comple.	of fir		f fin co
77428	990517	86920	1013079	30 022	961	09484
77455	990508	986947	1013052	129 022	544P	109491
77472	990499	986973	1013026	129 022	527	005 10
200	1000480	087000	1012999	26 022		00110
77506	990480 990471	987055	1012947	25 022	4700	09528
11523	THE PERSON NAMED IN	087070	101 2920	THE REAL PROPERTY.	4580	09538
77541	990452	987105	101289	23 022	441	09547
4000000	DQQ442	987122	101 286	722 022	424	9557
0775QI	990433	987158	1012841	21 022	THE RESERVE OF	09566
977608	990424	987184	101201		-	OneRe
	990414	987211	101278		34	WY705
977642	990405	987237	101276		3400	109604
977659	990395	987299	T.E. ED (**100L2) 500	16 022	3230	109613
977693	990377	987316	101268	15 022	306	09622
	990367	987343	101265	14 022	289	109632
77727	990358	987369	1012630	313 024	2720	C9041
277744	1990348	987395	101260		2380	XY071 XY0660
77761	990339	087422	101255	-	DOMESTIC BY	09670
17.770	-			-000	204	09679
077795	990310	087501	101240	8022	188	09689
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277845	99029	987553	101244	E 022	1540	09708
STATE OF LABOR.	990282	Section 1 to 1	COLUMN TOWN	1 022	LOCUMENTS I	THE REAL PROPERTY.
27787	990272	987606	101239	2 1000	2104	009727
	990263			2 022	2087	MODELLING OF
	990244			1 022	2070	
	990234		101228	8 0 021	1053K	09765
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37 Sinc.	Compl.	Tang.	Tangent compans.	of fine	of fa
5077046	990234	987711	1012288	60022053	0007
Tiorross.	090225	DD 673/1	1012262	59022036	
19//909	990215			58 02 2020	
2977990	090206	987790		57 02270	
4978013	990196	987816		56,021986	
\$ 978030	990187	987847	A SAME AND PARTY OF THE	35 021970	O CHARLES
3978046	990177	987869	1012130	5402195	3000
7978063	990108	987895	1012078	54 02193 53 021936 52 021919	
				51 021902	
- Songara	990139	983974	1012025	50 021 880	
1070117	990T20	098000	1011000	49 02 1869 48 02 185 47 02 183	2,0098
12 278 146	990120	988026	1011973	802185	3 0008
12078162	999110	988052	1011947	47 021830	0000
14978180	990101	988079	1011921	15 02180	
15 978198	990001	988105	1011894	1202100	
16978213	990081	088131	1011858	44 02178	0000
17 978229	AND DESCRIPTION OF THE PERSON	LOVE TOO		43 02177 12 02174 41 02172	
13 78240	990052				
20028270	1990042	JOSK226	[[O] 1704	MOIA - Y +	3 220
21008206	000022	088262	1011737	2002170	3 0009
22 078212	990024	988288	1011711	3803168	7 0099
3978329	990014	988314	1011685	3702107	00000
34978345	990004	988341	1011658	36 02165 36 02165 36 02165	7 0000
25 978362	909995	1400407	101103	D. Sakahahat	4 (400.37)
26,978378	989985	988393	1011606	34 02162	4 0000
27,978395	989975	988419	1011580	33 02160	8 0000
70,078411	BOARON	900445	1011554	也是国际政治	1 0000
20,078444	289946	98498	1011528	30 02155	2,0000
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ine Sine Tang Comple.	offine. of fines
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14// 100 00 00 00 00 00 10 11422	Carron Salaran
810 989907 988602 1011397	26 021489 010101
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1/3/2/3/3/3/1 == 1/4/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/	1 6 02 1 1 0 2 1 0 1 0 2 8 7 1
78837 989713 989124 101087 78852 989702 989150 101084	5 021146 010297
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78884 989682 989202 1 01079	2 021098 010327
78901 989672 989228 101077	1 021081 010436
78918 989663 989254 101074 78934 989653 989280 101071	0 021065 010346
CONTRACTOR AND PERSONS ASSESSED FOR THE PERSONS ASSESSED.	
Sine Sine. Comple. Tang	samua, and
W. Carlotte	

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38 Sine.	Sine	Tang-	Tangant compens	of fine of
0978974	989653	989280	1010719	60 02 1065 010
1978950	989643	989307	1010692	58 021049 01 58 021033 01 57 021017 01 56 021001 01
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6979031	989593	989437	1010562	54 020958 01 52 020952 01
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12979127	989534	989593	1010406	48 020872 01 47 020856 01 16 020840 01 15 020824 01
13 979143	989524	989619	1010380	47 020840 0
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16070191	989494	989697	1010302	41 0208 8 01 43 020792 01 12 020776 01 41 020760 01
17070207	989484	989723	1010276	43 020792 01
19670230	989464	689775	1010224	41 020760 0
	707474	909001	1030100	F IN BRIDGE STATE OF THE STATE
22 070297	080121	086863	1010173	15802071210
23,979303	989424	989878	1010121	370206960
24979319	989414	989904	1010005	36 020696 0 36 020680 0 36 020664 0
26 07035	080204	909930	1010009	34 020648
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Sine		Tanasar	Tang	Control was developed
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In the second property of the second	Lange war of the	11 200 1000	The second second	White wastern to

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97941	989354	290069	1009939	30 02058	5010645
779430	1989344	990086	1000012	29 02056	60106EE
97944	989334	990112	1009887	28 02055 27 02053	010665
979462	989324	990138	1009861	27 02053	7010675
979473	080204	990100	1000806	26 02052 25 02050	1010685
129494					
770525	999294	990241	1000758	24 02048 23 02047	010705
979541	989272	990207	1000732	22 02044	8010726
979557	1989263	1990293	1009700	21 92044	2010736
119573	909273	230319	1009000	30 0 304 2	010746
979589	989243	990345	1009654	19 02041	0010756
9/9004	989233	990371	1000628	1802039	010766
979636	989213	990423	1000576	17 02037 16 02036	010776
979652	989203	990449	1009550	15 02034	7010706
			1009525		
97968	989182	990500	1009499	13 02031	6010817
779699	989172	990526	10094743	12 02030	010827
			1009447		
The same of		Statement of the later of	1009395	NAME OF TAXABLE PARTY.	STATISTICS TO LINE
			1009369	8 02023	3010857
779777	989121	990656	1009343	7 02022	7 010868 2 010878
			1009318	602020	RSSOTO15
STORY THE RE			1009292	BR-4 HAMPING SHAD	1
7/9824	989091	990733	1009266	4 02017	010908
79855	989070	990780	1009240 1009214	3 02015	010919
779871	989060	990811	1009188	1 02012	010020
79887	989050	990836	1009163	0 02011	
Sine	Sine	Tangene	Tane	57	O RECEIPTION
STORE OF STREET	Transfer St.	-mbiani	Baker	A TOTAL DE	PERSONAL PROPERTY.

FACTOR DISPOSITION ORGANISM STATEMENT CONTRACTOR TO THE PERSON OF THE PE

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	Sine.	Sine compl.	Tang.	Tangent complem.	of ing of in. di
	980351		991610	1008389	30019648011259
70	980366	988730	991636	1008363	20 010622 011260
84	080281	1988719	991001	1008328	28010618011280
2	980390	988799	99108/	1008312	27 019603 011200 26 019587 011301
01	980412	988688	991739	1008260	25 019572 011 11
02					24 019557 011321
	1980.158	988007	991790	1008200	22 010541 077942
04	980473	988057	991810	1008183	22 010526 011242
105	1980488	1983046	991841	1008148	21 010511 0112
100	980503	900030	991807	1008132	20/019496 011363
10	080519	988625	991893	1008106	19 019480 01 1374
10	80540	988604	991919	1008056	18 019465 011384 17 019450011395
n	4000	1900794	991970	10000229	161010425 OF ADEL
111	980579	988583	991996	1008003	15 019420 011416
H	980595	988573	992021	1007078	TA CLOACH OFFICE
111	700000	1900104	9920471	1007052	1210102X0 Att 1841
111		20017-	7720/31	100/940	1 6 O LUZ / A DITAKU
111	0000	700741	77 4090I	100/101	11 019359 011458 10 019344 011468
1110	80670	088620	002150	1007849	
011	900000	19885 TO	002176	1007822	9 019329 011479 8 019313 011490
OIR		1400400	9922011	10077081	7019298011500
011	00/10	900400	99222/	100/772	6019283 011511
011	00/21	9004/0	992253	100/740	5019268011521
011	80746	988467	992278	1007721	4019253011532
01	80776	088446	992303	1007695	2 010228011542
01	80798	988435	992355	1007644	2 019223 011553 1 019208 011564
· 100	00806	988425	992381	1007618	0019193 011574
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Sine mpl.	Sinc.	To be seen as a	Tang.	d
	2000		- (verlay)		and the Land to the

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		(84)	12.00		Com e
- diag	Sine	Tang.	Comple	2.8	of fine	of fix. d
40 Sinc.			10076	18 60	019193	01157
0 980806	900427	992301	-	02 50	01917	301158
1 980821	988414	992407		4-58	01010	3 01159
2 980836	100054	100447	10075	42 57	01914	201161
1080866	100030	99240	51	100	01911	8 01 162
5 980881	9003/	99-10		1	01910	3 0116
6 980896	98836	1 99253	5 1007	404 34	01908	80116
7 980911				413 5	01907	30110
8980920	08832	99261	2 1007	-0-15	10100	OPIL
1098095	6 98831	999263	7 1007	362 5	0190	28 0116
17 08097	1 98830	999265 0899266	53 1007	13364	8,0190	130117
	01400-	11177	-/-	4	710109	
12 98098 13 98100 14 98101	1 9882	76 0027	40 100	7259 4	60189	680117
						22 OIL
16 9810	16 9882	54 9927	91 100	7208	40189	38011
					30189	23 011
18 9810	76 9882	33 9928	42 100	7121	411	AND PROPERTY.
199810	91 900	212 9928	393 100	7106	40010	393 011
27 2011	25,088	201 002	019 10	07080	22018	879 011 864 011
1220811	25 088	190/092	947110	-	30018	849 011
124 08 11	COOXX	179002	0/0110	0/029	COLX	834 011
24 9811	65 988	1699992 158993	02110	06978		81901
			-	006952		3804 011 3789 011
120001	210 083	147 99	1073 10	006926	33 01	8775 011
28 981	224 98	1120 99	3090110	mode.	12-01	876001
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		8104 99 Te				508
Con	ne S	ine. co	nplem	rang.	49	CELIN
	- 1975 - 330	2		-	and the same	100

	1 - 1	The Carry		85)					
.0	Sinc.	Sine compl.	Tang.	Tangent comple.		of fin. co,			
27/	0981254	988104	993149	1006850	30018745	011895			
50	1981269				29 018730				
160	2981284	1988082	993201	1006798	28 018715	011917			
161	3981298	988072	993226	1006773	27 018701				
162	1901313	988050	993252	1006747	26018686	011938			
16	7			1006696	/				
16				1006671	23 018642	011960			
16	981372	988018	993354	1006645	22 018627	011981			
116	981387	988007	993380	1006619	21 018612				
116				1006594					
117	981416	987985	993431	1006568	19018583	012014			
117	981431	987974	993456	1006543	18018568	012025			
	081460	987952	993402	1006402	17 018554 16 018539	012047			
016	981475	987941	993533	1006466	15 018524	012058			
0117	A		993558		14 018510	-			
011	981534	987920	993584	1006415	13 018495				
011					12 018480				
011			993635	1006364	11 018466	012101			
011,			-			012112			
011	981577	087865	993686	1006287	9018436				
011	981592	987854	993737	1006262	7018407				
OII	9×1606	987843	993763	1006236	6018393	012156			
OII	981621	987832	993788	1006511	5 018378	012167			
901				1006185	4 018363	012178			
5 011	81665	987810	993839	006160	3 018349	CARL CONTRACTOR AND ADDRESS OF THE PARTY OF			
5,01	81670	987788	993865	006100	1018334	STATE OF THE STATE			
500	81694	987777	9939161	006083	0018305				
550	Sine compl.	Sine.	Tangent -	Tang.	19	52.14			
11 12 1		,	compie.		1				

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		Sine 1	-	Tangent	1	com. ar	com «
70	sinc.	comple.	E TOTAL STREET	complem.	-	of fine	OF MILO
0	81694	987777	993916	1006083		018305	
10 lbs		-0		けんへんのちゃ	15 O N	018291	01223
20	81722	987756	993957	1006032	158	018270	0132
3 9	81737	987745	993992	1006007	127	01824	01226
49	81752	987734	994018	1005981	150	01822	01227
20	31760	190/145	177404	177	123	018218	17
59	81781	987711	994069	1005930	124	01820	0122
219	81795	98770	994094	100587	252	31818	0123
9	81810	90/00	77412	1000		01817	50123
000	81820	98766	799417	100582	350	01816	0,0133
-17	0.00	08765	600410	100580			
215	0105	108764	5 99422	2 100577		01813	1 0123
						11810	70144
40	28180	5108762	3199427	31100572	0110	01810	80122
5	16186	198761	2 99429	8 100570		0-	0013
7	-	0-1	- 00122	A TOOR 67	2 64	01807	40123
						01804	5012
18	98195	4 98757	999437	5 100562	4 1	01802	1 0124
9	98196	8 90/50	014444	11,00117	2 10	0180	6012
20	98198						
21	98199	7 98754	15 99 145	1 100554	8 35	0170	38012
22	98201	1 9875	4 9944/	210051	27 2'	0179	73 012
23	98202	0190/24	3 3347	0 TOOF 15	71 2	60179	59012
25	98204	1 28750	01 0045	3 10054	16 3	0179	45 012
26	98205	0-		TOOK 4:	2112	01/9	30000
27	98206			10054		20179	16 013
28	98200	2 0874	68 0046	2910053	703	20170	03,012
29		2 874	55 9946	29 10053	143	10178	72 012
30	9821	2619874	55 0946	80 10053	193	101/2	13010
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	comple	. Sin	C. comp	le. Tang	5.14	•	120

,	Sine.	Sine compl.	Tang.	Tangent	1	of fine	of fin. co.
Ä		1	-	TOOKSTO	-	-	
90	-			1005319			
31	982140	987434	994700	1005293		017859	012576
2	982155	987423	994/31	1005268	All the second second		012587
3	982109	087400	004782	1005242	266	0-1	012599
54 54	982197	987380	994808	1005191	25	017802	012610
7				1005166		017788	012621
0	082211	087267	994858	1005141	22		012632
6	082240	987355	994884	1005115	22	017759	012644
9	982254	987344	994909	1005090	21	217745	012655
Ó	982268	987333	994935	1005064	20	017731	012666
ŀ	982283	987322	994960	1005039		017716	
2	082207	987311	994986	1005013	18		012688
2				1004988	17		012700
4	982325	987288		1004962		017674	The second secon
5	226	987277		1004937	221	Marie Control	012722
6	982353	987265	995087	1004012	14	017646	1000
1	982368	987254	995113	1004886	13	017632	
	982282	1987243	997130	1004001	1 2	017617 017602	012750
9	982396	987232	005180	1004835 1004810	10	017580	012770
ŀ				The second second second	1	OTECT	012700
ì	982424	987209	995215	1004784	8	017561	012801
,	982438	087186	997240	1004759			012813
3	082466	087175	995291	1004708			012824
K	982480		995316	1004683	5		012835
ŀ		-		1004657	4	017505	012847
	982508	287141	005267	1004632	3		012858
ĺ	982522			1004607	2	017476	212869
ı	982537	987118	995418	1004581	1	017462	012881
ı	982551	787107	995443	1004556	ok	217448	012802
I	Sine	Sine.	Tancent	Tang.	-	2	Call of the

42	Sinc	Sine comple	Tang	Tanges		com. at	com. a	ı
10	98255	1 98710	-	A STATE OF THE PARTY OF	_		01280	
							The second second	
2	98257	9 98708	4 99540	10045	05 58	017420	OI 201	ı
3	98259	3 98707	399551	10044	8057	017406	01202	
4	98260	7 987061	1995549	10044	54 56	017392	01203	
	-	1 987050					-	
6	98263	5 987038	995590	10044	03 54	017354	01296	
7	98264	9 987029	799562	1 10043	7853	77750	OI 207	
0	98260 08060	3 98701	1995040	10043	352	17336	01298	
10	98260	987004	005607	10043	720	17200	01200	
		1			and the second second	The second second	-	
120	98271	4 986981 8 986970	005748	T0049#	1490	17295		
134	98272	210X605X	905775	100124	617	17267	01304	2
14	98274	986947	999799	100420	046	17253		0.6
15	782760	986947	995824	100417	5 45 0	17239	01306	9
16	282774	986924	995850	100414	9 44 0	17225	01307	9
		986913				17211	01308	9
1819	84814	986901	995900	100409	942	17197	20	9
200	82820	986890 986878	005051	10040	2400	171690		9
A 10	THE CHANGE	986867				17156	100000	2
29	82857	986855	9979/0	100200	3390	17142		9
39	82871	986843	996027	100397	2 37 0	17128		9
49	82885	986832	996051	1003940	360	17114	1316	9
		986820		1003921	350	17100	1317	9
69	82913	986809	996103	1003896	1711	7086	40.00	9
719	82926	986797	006120	1003870	330	70730	1 3 20	0
89	82054	9867786	996154	1003845	32 0	7045	1 222	9
0.9	32968	986786 986774 986763	006205	002701	3001	70310	1 323	9
	Sine	50	Tangent	distribution in	100 4	15/8/2		70
	mple,	Sine. 1	comple.	Tang.	47	10 - 1 - 1	1004	

-		The second second	-	-	Application and application of the second
om. a	Sinc.	Sine comple,	Tang.	Tangent comple.	of fine of fin. co
1289	982968	986763	996205	1003794	30017031 013236
1290	982982	986751	996230		
291	982999		996255	1003744	28017004013260
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13	2 , 10	985984		1002123	24	016139	014015
13	82874	985972	997902	1002097	23	01612	014027
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7	983913		997977	1001996		-	STREET, ST. Sec.
37	983927	985923 985911	998003	1001971	18	016059	014088
37	983953	985899	998052	1001946	17	016046	014100
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9	984294	985583	998711	1001288	51 015705	014
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	213987	0171	223299		230963	0237	237
	214301	0172			231175	0238	
	214612		223804		231386	0239	
	214921	0174			231597	0240	138
Service C	215228		224303	0208	231806	0241	138
0143	215533		224551		232014	0242	238
2144	115836		224797		232221	0243	438
0145	216136		225042		232428	0244	238
	216435		225285		232633	0245	233
200	216731	1	225527	0213	232837	0246	439
0148	217026		225767		233041	0247	239
2149	217318		226007		233243	0248	
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0661	282020	0694	284135	0727	286153	0760	
	282085	0695	284198	0728	286213	0761	288
	282151		284260	0729	-01	0762	
	282216		284323	0730	-01	0763	965-0
0665	282282	0698	284385	0731		0764	280
	282342		284447	0732	286451	0765	28
0667	282412	0700	284509	0733		0766	
	282477	0701	284571	0734		0767	
	282542	3702	284633	0735	1 nein	0769	
-	282607	0703		0736		1	-
	282672	0704		C737	286746	0770	
	282736	0705	284818	0738	286864	0772	
	282861 282865	0706		10740	286923	0773	100
	282930	0707		0741		0774	
			-04-6	-	-0-	-	28
2677	282994 283058	0709	1-0			0776	28
2678	283121	0710	285186	074		0777	28
	283186	071		1.074	287215	10778	28
0680	283250	071	1-0-4-0	074		0779	28
1-	283314		10000		287332	0780	28
068	283378	071	1000	074	287390	0781	28
068	283442	071	/ 0 -	074	287448	1078	
	283505		285551	075	287506	1078	3 28
	283569		-1-0-1-4	075	1 287563		
0680	283632	071	285672	075	2 287621	078	
068	283695	1072	285733	1975	3 287679	10780	
0638	3 283758	072	1 28579	1075	4 287737	1070	- 80
0689	283821	1.072	2 28585	1075	28779-	078	
0693	283884	1072			6 287852	and the same of	38
069	1 283947				7 287909		2 2
1069	2 284010	0,072	1.8603	3 1075	8 287966	079	2 2
060	3 28407	1072	61:8609	31075	9 28802	10/9	-10

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88	93 289927	0826	291698	0859	293399	0892 295036
8	94 289982		291750		293449	0893 295085
8	95 290036		291803	c861	293500	0894 295133
4	96 290091	0829	291855		293550	0895 295182
8	97 290145		291907	0863	293601	0896 295230
8	98 290200	0821	291960	0864	293651	0897 295279
	99290254		292012		293701	0898 295327
8	00290309		292064		293751	0899 295375
¥	01 290363	0834	292116	0867	293801	09CO 295424
190	02 290417	0835	292168	0868	293851	0901 295472
8	03 290471	0836	292220	0869	293901	0902 295526
9	04 2905 25		292272	0870	293951	0903 295568
ò	05 290578		292324		294001	0904 295616
Ö	06290633	0839	292376	0872	294051	0905 295664
×	7290687	0840	292427	0873	294101	C906 295712
S)	8290741	0841	292479	0874	294151	0907 295760
88	9290794		292531	0875	294200	0908 295808
8	10290848	0843	292582	0876	294250	0909 295856
	11290902	0844	292634	0877	294299	0910 295904
89	12290955	0845	292685	0878	294349	0911 295951
89	13 291009	0846	292737	0879	294398	0912 295999
89	14291062		292788	0880	294448	0913 29604
89	15 291115	0848	292839	0881	294497	0914 296094
	16 291 169	0849	292890		294546	0915 29614
09	17291222	0850	292941	0883	294596	0916 296189
89	18 291 275	0851	292992	0884	294645	0917 296236
89	19291328	13852	293043	0885	294694	0918-296284
o O	20291381	0853	293094	0886	294743	0919 296331
07	21291434	0854	293145	0887	1294792	0920 296378
2	22291487	0855	293196	0888	294841	0921 296429
8	23 291539	0856	293247	0889	294890	0922 29647
0	4291592	0857	293298	0890	294939	0923 2965 20
339	5/291645		3 203348		294987	10924 296567

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0925 296614	0944	297497	0963	298362	0982 200
0926 296661	0945	297543	0964	298407	0983 200
0927 296707			3965	298452	0984 200
0928 296754		297635	0966	298497	0985 290
0929 296801			0967	298542	0986 299
0930 296848	-	297726	0068	298587	0987 200
0931 296894	0050	297772			0988 200
0932 296941		297818			C989,299
0933 296988					0990 200
0934 297034	0953				
0025 207081				298811	2992 200
0936 297127				208855	
0937 297173					
0938 297220					
0939 297266					
and the second second		298181	-	499033	0997 299
0941 297348			0070	200078	
0942 297405					0999 299
					10001300

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CERTAIN NECESSARY TABLES,

OF NAVIGATION



A Table of Meridional parts.

Latit.	10	las	5	lat	1435	Las	
D.M	D.parts	D,	D. parts	D.	D. parts	D.	D.pares
0 00		5	5 006	10	10 051	15	15 174
20	12 1000000		5 474 5 341		10 390		15 347 15 519
30	0 500	100	5 508		10 559		15 692
40	0 667		5 676		10 898	-	15 865 16 0 38
100	1 000	6	6 ori	II	11 068	-	16 212
26	Control Control	1	6 179		11 238 11 408		16 385
30	1 500		6 514		11 578	12.5	16 733
40			6 849		11 918	1	17 081
200	2 000	7.	7 017	12	12 089	17	17 255
P 20	2 167	2	7 186 7 353	Sec.	12 259 12 429		17 604
30	2 501		7 521		12 600		17 778
50	2 834	11	7 858		12-942	嬴	18 128
300	·3 001	8	8 026	13	13 113	18	18 303
20	3 169	I	8 363		13 455		18 654
30	3 502		8 531		13 627		18 830
50	3 836		8 868	- 1	13 798 13 969	910	19 181
4 00	4 003	9_	9 037	14	14 141	19	19 358
10	4 171		9 375	10	14 313 14 485		19 535
30	4 505		9 344		14 657	12	19 887
40	4 672		9 713		15 001		20 241
5 00		101	0 051	15	15 174	20	20 419

A Table of Meridional parts,

Latit.	VA.	700	Lat		1	lat		ali .	148	
DIM.	D.	parts	D.	D.	parts	D.	D,	parts	D.	D. pare
10,00	20	419	25	25	833	20	31	472	35	37 40
	20	596	Sec. 2	26	017	22	31	664	22	37 60
10.00	20	774		26	200	5 3	31	857		37 81
30	20	952		26	386		32	051	1	38 016
40	21	130		26	57°		32	244 438	1	38 420
1100	21	308	26	26	941	31	32	633	36	38 63
	COLUMN TWO	-	-	27	126		32	827		38 838
	21	844	8.3	27	312		22	022		39 04
30	7777	022	7.3	27	498		33	218	5.1	39 25
40		202	2.1	27	685	2-1	33	413	0	39 460
50	22	381		27	871		33	609		39 66
1200	22	561	37	28	058		33	805	21	-
100 000	22	741		28 28	245		34	002		40 20
	22	921		28	432		34	199		40 50
30	23	282		38	809		34	595	× 1	40 71
50		462		28	997		34	792		40 92
17 00	23	643	28	29	185	33	34	991	38	41 130
10	23	824		29	374		35	190		41 34
20		006	6	29	563		35	389		41 560
30		188		29	753		35	589		41 77
40	12000	369		30	943		35 35	789	魔	42 200
400	24	734	20	30	322	34	36	190	39	42 41
100	24	916		30	514		36	391	1	42 620
000 Sept.	25	099		30	705		36	593	2.1	42 84
30	25	282		30	896		36	795	7 3	43 06
40	25	465	30	31	088		36	997	63	43 27
500	25	848	20	31	479	25	37	404	40	43 49

A Table of Meridional parcs.

atit.	1 16	las	133	lat			lat	1000
). M	Dipare	D.	D, paro	D.	D.P	arts	D.	D-brd
400	12 71	o a c	59 497		57	905	75	66 129
	143 92		50 733	2	58	165		66 420
	Male Ta	65	50 970		58	425	3	66 711
3	14 36	3	51 207		58	687		67 006 67 401
4	2010/06/2015 19:50		Ri 68		58	949 212		67 507
426	44 80 45 02		The Part of the Control		59	477	56	67 894
	S. Delivery	200	52 16	133	59	743		68 192
2	145 24 045 46	40.0	52 40	1000	60	008		68 49
	045 68	9	52 64°		60	276		68 794
	045 9E	2	152 88	e 9.000	60	544		69 40
-12	046 13	0	153 33 153 33		61	813		69 70
50			62 6Z	3 San	61	25.4		70 01
400	046 58	3	13 86	A. 19.00	61	626	23	70 32
100	047 03	6	64 11		61	900		70 63
Control of	047 26		54 36		62	174		70 94
2	047.40	9/1	数 85	THE RESERVE		449 726	88	71 56
100	947-71		-		63	DESCRIPTION OF THE PERSON NAMED IN		71 88
4.6.5	047 94		10 13 13 15		63	282		72 20
CONTRACTOR OF	048 40		13 60		63	562		72 51
	048 6		155 85	9	63	842	4.00	72 83
解.		4	56 II	The second second	64	124	2.00	73 5
7	049 0	54	56 36		12	407	े हरू	77 9
Part of B	049 3	7	56 62	Charles !	64	970	200	74 1
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	10/50 21	52	57 64		65	839	1	75 1
450	x0150 49	77.5	057 90	2.23	166	129	100	175 4

A Table of Meridional parts.

Eatit,	3 K1181	(fat)	Las	las	1271
D.M	D. parts	D. D. par	D. D.	parts D.	D.parts
60 a	75 451		THE RES. LEWIS CO., LANSING, MICH.	42 75	116 16
COLUMN TAXABLE	75 785	1	A STATE OF THE PARTY.	91	116 8
	76 121	87 10	0 100		117 4
	76 458	87 50			118 1
Control of the Control	76 798 77 139	87 90		200 100 100 100	119 4
61 00	77 482		8 71 102	N 2 C 1 14 P	120 1
10	77 826	89 12	9 102	93	120 8
20	78 173	89.54	THE WATER	PRINT AND STREET	F21 5
30	78 531	89 95			122 9
40	78 871 79 223	90 37	the first terms of the second	A 30 30 50 7	123 7
62 00		Service Control of Control	6 73 105	1777	124 4
10	79 934	91 65	4 106	TI S	125 1
20	80 291	92 08			125 9
30	90 651	department of the contract of	5 10	The second of the	126 7
40	81 377	92 95		33	128 2
63 00	81 743	68 93 83			129 0
10	83 111	94 28	100	47	129 86
20	ACCURATE STREET	94 73		C 75 C	130 6
10	82 854 83 228	95 18	The second second	23	131 5
50	83 605	96 10		82	133 2
4100		69 96 56	74,112	4279	134 0
10	84 365	97 03		02	134 8
2	84 749	97 5C	113	64	135 8
30	85 523	97 97 98 45	6 114	26	135 7
50	85 913	08 03	1115	52	138 61
65,00	36 307	70 99 42	2 75 116	16 80	139 56

The first Table of Rumbs,

Lgi	D I	00	1	80		60		40	D	119	18	17	16	D
3	G.	M.	2.	19.	g.	w.	Z.	m.	-	17	-	**	200	3
Cumbe. ~	4444	59856	3333	59 58 57 55	2 2 2 2	59 58 56	I	59 58 57	60	150	54 54 53 53	51		4444
2	4444	51 47 42 37	3	53 50 46 42	2 2 2 2	55 52 49 46	I I I	56 55 53 51	58 57 56 55	56 55 54 53		50 49 48 47	47 46 45 44	4 4 4 4
3	4 4 4 4	31 25 17 10		37 32 26 20	2	43 39 34 30	II	48 46 43	54 53 51	52 50 49 47		46 45 44 42	43 42 41 40	3
4	4333	OI 52 42 32	3	1305	2 2 2 2	25 19 13 07	II	36 32 28 25		46 44 42 40	43 42 40 38	39 38 36	37 36 34	13
5	3322	22 10 59 47	2 2 2 2	41 32 23 14	I	01; 54 47 40	I	21 16 12 07	40 38 36 33	38 36 34 32	34	32	30	2
6	2 2 2 1	34 22 18 55	2 I I I	_	I I	32 25 17 08	00	57 52 46	31 38 26 23	29 27 24 22	28 25 23 21		25 23 21 18	1
7	I	41 27 13 59	1100	20 09 58 47	100	52 44 85	0	40	20 17 15 12	19 16 14 11	18 16 13	17 15 12 10		1
	000	44 30 15	0	36	0	18	0	12	09	06	08		105	

	14	නගහන 1	03	03 03 03 02 3	02 02 02 02 4	O2 O2	02 5	02 5	02 5 02 01 01 01 01
es.	2	06	06	०५%	05	04		10	10
tud	3	8888	09	8888	07.	8 8 8 8	04	03	
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fe	8	24 24 24 24	23 23 23 23 22	22 21 21 20	19 19 18	16 15 14 13	12 11 10 09	06	04
ed	9	27 27 27 26	26 26 25 25	24 24 23 22	22 21 20 19	18 17 16 15	10	08	04
ch	10	30 30 29	29 28	27 26 26 25	24 23 22 21			09 07 06	05
find	11	33 33 33 32	32 31	30 29 28 27	26	22 21 20 18	17 16 14 13	08	05
to	12	36 36 36	35 34 34 33	22		23	18 17 15 14	071	05
	13	39 39 39 38	37	35 34 33 32	31 30 29 28	26 25 23 22	18 17	08	06
	当人	12 42 42	41 4 4 9 39	38 37 36 35	βÍ	28 27 25 23		81	061
0.5	D	1444 1	4444	49	36	30 20 27 25	23 22 19	15 13 11 00	100
	6	8887	765	3210	976	2097	5318	6 42 0	-

The fecond Tuble of Rumbs,

Lati	€.		Fir	lt	15	eco	nd	[Thi	rd	F	our	4
gr.		L	mg.	dif	L	ong.	dif	L	mg.	dof	L	ng.	di
OI	0	0	02	2	0	04 08 12 16 20 25	4.	0	07	6	0	10	10
. 2	C	0	04	2	0	08	4	0	13	7	0	20	10
3	0	0	06	2	00	12	4	00000	20	7	000		
14	0	0	08	2	0	20	5	6	12	7	0	50	IC
10	00000	0	10	2	0	25	£	0	97 3340 47 530 07 1320 27 23 40 47 533 0 07 33 40	7		400010	16
1	0	0	14	2	0			0	47	6.	1	10	10
12	0	0	16	2	0	33	4	0	-53	7	1	-	ш
13	0	0	18	2	00	37	4	I	00	7	1	30	10
5	0	2	22	2	6	45	4	1	13	7	i	50	IC
2	000010	0	20 22 24	2	00	50	4	I	20	7	2	400	10
-1	0	00000	26	2	00	54	4	1	27	6		10	10
	0	0	28	2	0	58	4	1	23	7	2	20	10
3		0	30	2	1 1	02	4	r	40	7	2	30	10
4		0	34	2	1	10	4	I	53	7	2	50	1
30	Ø	0	28 30 34 36	2	1	29 33 37 41 45 50 50 10 15	4	2	00	7		00	10
-		0	38	2	1	_		2 2	07	6	3	10 20 30 40 00	10
2	0	0	40	2	1	23	4	2	13	7	13	20	10
3	0	0	42	2	I	27	4	2	20	7	13	30	10
4	0	0	44	2	I	31	4	2	33	7	3	50	10
40	000	0	48	2	I	19 23 27 31 35 39	4_	2	40	7	3 3333334	Ó	10
-	0	0	50	2	I	43	5	2	47	7		10	
2	10	0	52	2	1	48	4	2	54	6	4	20	10
3	0	0	54	2	I	52	4	3	00	7	4	30	10
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to finde the difference of longitudes.

atit.	17	Fif	W.T.		Six		1 5	Seventh	E.
r.lm.	Lon	wir	diff.	Lan	gis.	diff.	Lon	git dif	Ŧ.
0,10	00	15	15	00	24	24	00	50,50	
20	00	30	15	00	48		OI	4051	M.
	00	45	15	OI	12	24	02	3150	
	OI	00	15	OI	36	24	03	21 50	H
100		20	15	02	25	25	04	3150 2150 1150 0151	
1	OI			02	25	_	05		-
	OI	50	15	03	49	24	05	5250	
	02	14	15	02	27	24	7	4250	
	02	29	15	04	01	24	-7 c8	2251	
50	02	44	15	04	25	24 24 24 25	09	3250 2251 1350	
	02	_	15	04	50	1-4	ITO	C351	
IC	03	14	15	03 04 04 05 05 06 06 06	14	24	10	5450	
20	03	29	15	05	38	24		4450	-
40	03	. 50	15-	06	02	24	12	3450 2451	8
50	04	14	15	06	20	24	13	2401	1
300	04	29	15	07	15	24	15	1550	S
	04	_	15	97 98 98 98	20	25 24 24	15	56,50	
20	04	55	15	68	03	24	16	46 50	
	05	14	15	80	-27	24	17	26150	
	905		15	68	51	24 25	18	26 51	
400	05		16	09	15	25	19	26 51 17 50 C7 51	
		-	15	09	40		20		
	06	15	15	10	04		20	5850 4851	
30	06		15	10	28		21	4851	
40	07	O	15	11	53	24	23	3950	1
150	707	15	15	11	41		24	2050	
2,00	700	30	15	12	05	24	25	1051	

The fecond Table of Rumbs,

Latit.	Firt	Secon	d Third.	Fourth
7. 10	Long.	if Long	of. Long. de	THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS O
5 10 20 30 40 50	I 02 I 04 I 06 I 08 I I0 I 12	2 08 2 12 2 16 2 20 2 25 2 29	3 277 3 347 3 417 3 486 4 3 547 4 015	5 10 10 5 20 10 5 30 10 5 40 10 5 50 11 6 01 10
10 20 30 40 50	I 14 I 16	2 2 33 2 2 38 2 2 42 2 2 46 2 2 50 2 2 55		5 10 10 5 20 10 5 30 10 5 50 11 6 11 10 6 21 10 6 31 10 6 51 10 7 21 10 7 31 10 7 31 10 7 51 11 8 02 10
30 40 50 8 00	1 26 1 28 1 30 1 32 1 34	2 2 59	4 487 4 557 4 5 027 4 5 096 4 5 157 5 227	
20 30 40 50	1 38 1 40 1 42 1 44 1 46 1 48	2 3 24 2 3 28 2 3 32 2 3 36	4 48 7 7 7 4 55 7 7 6 6 7 7 7 6 6 7 7 7 6 6 7 7 7 6 6 7 7 7 6 6 7 7 7 6 6 6 7 7 7 6 6 6 6 7 7 7 6 6 6 6 7 7 7 6 6 6 6 7 7 7 6 6 6 7 7 7 6 6 6 7 7 7 6 6 6 7 7 7 6 6 6 7	8 12 10 8 22 10 8 32 10 8 42 10 8 52 10 9 02 10
10	1 50 1 52 1 54 1 56 1 78	2 3 49 2 3 53 2 3 57 2 4 01 3 4 06 2 4 10	4 6 097 4 6 167 4 6 237 5 5 306 4 6 337 4 6 437	9 12 10 9 22 10 9 33 10 9 43 11 9 54 10

Į.	tit.		Fif			Six	t	S	even	h
	m.	Lon	gis	diff.	Lon	git.	diff.	Lon	git.	liff:
	5,10	07	45	15	12	29	24	26	015	
	30	c8	00		12	53	25	26	51 5	
	30	c8 c8.		15	13		24	27	325	
ı	50	c8		15	13	06	24	29	235	
ı		09	00	15	14	31		30	.135	I
I	_	09	15	_	14	55	-	31	045	
ı		09	20	15	15		25	31	545	1
		09	45	15	15	44	24	32	45/5	Ó
	40	10		15	16	. 08	24	33	35,5	
		10	20	15	16	56	24	34	25 5	
ı	1	-		-		_		35	165	
I		10	45	15	17	20		36 36	075	I
		11		15	18		24	37	585	a
		11	39	15	18	33		38	395	0
	50	11	45	16	18	97	25	39	295	I.
	800	12	01	15	19	22	24	40	205	1_
ı		12		15	19	46	25	41	115	
		12		15	20	11		42	02/5	
	10	12		15	20	30	24	42	53 5	
		13		15	21		24 25	43	43 5	
	900	13		15	21	49		45	25 5	
	1	13	-	15	22	-	24	46	165	_
	20	14	01		22	37		47	075	1
	30	14	16	16	23	02	24	47	.585	1
		14	32		23	26		48	4915	
1		14	47		23	51	25	49	405	1

ATENT OFFICE LIBRARY

The fecond Table of Rumbs;

Latit	1	Fir	lt.	IS	ecol	nd	1	hi	d	F	ourih	ı
gr. m	L	ong.	dif	Lo	ng.	dif.	Le	ng.	def.	Los	19.1	ı
10 10	2	02 04 06 08	2 2	4 4	1.6	4 4 4	6 7	50 57 03 10 17 23	767	10	13 10 23 1 34 10	
1100	2	10	2	4 4 4	14 18 22 26 31 35	5	7777	17 23	767	10	54 II 04 I	
30	2	14 16 18 26	2	4 4 4 4	43	4 5 4	7777	30 37 44	77776	II II II	141 241 351	
12 00	2	22 24 26	2	4	56	1 1	78	51 58 04	7_	11 12	45 II 55 II 05 II	
10 20 30 40 13 00	2 2 2 2	28	2	ちらいいいいい	39 43 48 52 56 01 05 09 13 18 22	4 5 + 4	777778 8888888	11 18 25 32 39 46	ファファファ	12 12 12 12 12	36 I 46 I 56 I	
10 20 30 40 50	2 2 2 2 2	39 41 43 45 47 49	2 2 2 2 2	5555555	34 38 43 47 51	4 4 5 4 4 4	889999	52 59 06 13 20 27	7777	13 13 13 13 14	17 1 27 1 38 1 48 1 58 1	
30	2 2 2 2 2	51 53 55 57 59	2 2 2	6	55 00 04 08 13	5 + + 5	9 9 9 10	34 41 48 54 01	77677	14 14 14 14	18 1 28 1 39 1 49 1	
	013	01	2	6	17	4	10	08	7.	115	101	

Fift Sixt Seventh ourth atit. 2311 3410 10,10 15 20 15 30 15 29 24 03 15 44 10 54 10 04 10 14 10 40 16 53 25 18 25 54 55 26 50 16 3851 00 16 34 15 49 16 20 17 58 20 52 35 10 45 10 55 10 05 11 28 40 17 50 17 35 15 4651 00 18 05 15 15 II 25 II 36 II 46 II 56 II 17 II 20 15 375L 2852 51 15 20,5 L 06 15 H 21 16 00 19 52 16 04 25 38 08 15 27 I 38 I 48 I 58 I 68 29 25 20 20 54 24 18 25 30 20 23 15 38 16 40 20 50 20 43 25 68 25 13 52 54 16 33 25 58 25 52 56/15 48 41 52 49 I 59 I 33 52 25 52

13 25

50 22

00/22

The fecond Table of Rumbi,

ati		Fir	-		Seco		1	Th	ird	F	00	rth
r.	m. L	ong.	diff	L	ing.	dif.	L	ng.	dif.	Lo	ng.	di
15	103	03	2	6	- 21	15	10	15	7	15	20	
8.0	20/3	05	2	6	26	4	10	22	7.	15	30	
	303	07	2	10	30		10	29	7	15	41	II
1	40 3 50 3	09	2	6	34	5	10	36	7	15	51	
16	50 3 00 3	11	2	6	39 43	4	10	43	7.	16	13	10
	103	15	2	6	47		10	57	7	16	23	10
	203	17	2	6	51	5.	11	04	7	16	33	11
1	30 3	19	3	6	56	4	11	II	7.	16	44	
-	103	22	2'		00	4	11	18	7	16		10
17	503	24		7	04	4	11	25	7	17	04	
	3	26		7:	08		-	32	-	1/	7100	10
	103	28		17	13	4	11	39	7 .	17	25	10
	103	30	2	7	21	4	II	46 53		17	35	-
	303	32	2	7	26	5	12	00	7	17	50	II
	403	34	2	7		3	12	07		18	07	II
18	003	38	2	7	30	4	12	14		18	18	10
	102	40	-	17	39	4	12	21	7	18	28	
	203	42	2	7	43 47 52	4	12	28		18	39	
	30/3	44	2	Z	47	5	12	35		18	50	
. 1	403	46	3	Z	52	5	12	42		19	10	
19	503	46	2	ファファファ8	57	4	12	56	7	19	21	
-			2				13	03	7	19	31	11
	203	53	2	18	10	4	13	10	7	19	42	
	20 3 30 3 40 3	55 57	2	8	14	1	13	17	7	19	53	10
	403	59 OI	2	8	18		13	24	7	20	03	
	504	CI	2	00000000	23	4	13	31	7	20	14	II
	00 4	04	2	18	27	5.	13	38	7.0	20	25	10

to find the difference of Longitudes."

Lat	it.	33	Fif		1	Six	t	S	exe	nth .
pr.1	m.	Lon	git.	diff	Lo	ngit	diff	Lon	git	diff
		22	57	16	37	03	25	77	09	52
		23		15	37	28	25	78	OI	52
		23		16	37	53	25	78	53	52
		23	44	16	37 38 38	18		79	47	52 53
16	50	24	16	15	39	98	25	81	30	52
	_	-	31	16	39	-33	-	82	22	10000
	20	24	47	16	39	58	26	83		53
	30		03	15	40		25	84	.07	52
	40			15	40	49	25	84	59	53
17	50	25	33	16	41	14	25	85 86	52	53
2. 1	00	-	49	_	41	39	_		_	52
		26	04		42	04	25	87 88	37	52
	20	26	36	10	42	29 55	26	89	29 22	
	30	26	51	16	43	20	25	90	15	53
i	50	27	07	16	43	45	25	91	08	53
		27	23	16	44	11	25	92	of	53
	10	27	39	16	44	36		92	54	53
	20	.27	55	16	45	01	26	931	47	53
,	30	28	11	15	45	27	25	94	40	
	40	28	26	16	45	52	26 26	95	33	53
	က	28 28	42 58		46	44		97	19	
19	_	-	_	16		09	-	98	12	-
		29	14	16	47	35	26	99	05	
	20	29	46	15	48	01	25	99	59	53
	40	30	01	16	48	26		100	52	53
-	50	30	17	16	48	51	26	101	45	53
		30	33	16	49	17	26	102	38	54

The fecond Table of Rumbs

Lat	it.	Fin	A	S	eco	nd	1	Tb	ird	F	OU	d
7.	111	Long.	diff	L	ng.	dif	L	mg.	dif.	L	mg.	d
20		4 06		08	32		13	45	7	20	35	ī
- 4	20	4 00	2	08	36		13	52		20	46	11.
			2	08	41	5	14	07		20	57	10
-	40	4 13	2	08	46		14	14	-	21	18	h
21	00	17	2	08	54	4	14	21		21	29	
2.	10	_	-	08	58	-	14	28	8	21	39	L
	20	1 19	2	09	03	5	14	36	7	21	50	
	30	23	2	09	08	4	14	43	7	22	ÓI	11
1	40 50	25	12	09	12	4	14	50		22	12	11
23				09	16		14	57		22	23	10
77	-1	1 29	_	09	-	5	-	04	-	122	34	-
		4 31	2	09		5	15	18		22	44	II
-	100	1 33	2	09	30 34	4	15	26		23	06	10.7
	40	35	13	09	38	5	15	33		23	16	H
	50	4 40	12	09		4	15	41	7	23	27	II
45	00	4 42	2	09	47	5	15	48	-	23	38	11
	10	4 44	2 :	09	52		15	55	8	23	49	H
	4	4 46	2	09	57	5	16	10	7	24	11	II
	30 4 40	4 48	3	10	06	4	16	17		24	22	11
	50	53	2	10	10		16	25	7	24	33	11
34		55	2	10	14	5_	16	32	7_	24	44	11
-	10	57		10	19		16		7	24	55	11
	20 4	59	3	10			16		7	25	06	I
		02	2	10	29		16	53 OI	7	25 25	28	11
	40	04	2	10	33	5	17	08		25	39	11
25	00			10		5	17	16		25	05	II

to find the difference of Longitudes.

Latit.	Fif	13:	12	Six	t	Se	ve	nth
gr. m.	Longit.	diff	Lo	git	diff	Lon	git	diff.
20 10	3C 49	16	49	43		103	26	54
	31 37 31 53	16	50 51 51	35 09 26 52	25 26 26 26	105	20 13 07 01	
10	32 25 32 41	16	52 52	_	26 26 26	108	55 49 43	54
40	32 57 33 13 33 29 33 46	16.	53 54 54	26	26	111	37 31	54 54 54
		16	54 55 55		26 26	114 115 116	19	55
140	34 50	16	56 56 57			117	52	55
20 30 40	35 39 35 55 36 12 36 28	16	57 57 58 58		26 26 26 26 27	119 120 121 122 123	46 41 36 31 26	55 55 55
24 00	36 44 37 or 37 17	16	59 59 60	43	26	124 125 126	16	55
30 40 50	38 06	15	61 61 61 62	55	27 26 27 27 26	127 128 128 128	11 06 01 56 52	55 55 56

The fecond Table of Rumbs,

Latin		Fir	lt .	S	co	nd	1	Chi	rd	F	опт	4
gr.	L	ong.	dif	Lo	ng.	dif.	Lo	ng.	def.	Lo		dif
40	5555	10 12 14 17 19	3 2	01 01 01 11 11	47 51 56 01 05 10	+ 5	17 17 17 17 17 18	23 30 38 45	787787	26 26 26 26 26 26 26	23 34 45	11 11 11 11 11 11 11
30	5555	23 25 27 30 32	2 3 . 2		14 18 23 28 33	++5555	18 18 18 18	07 15 23 30 37	88 778	27 27 27 27 27 27 27 27	18 29 40 51	II II II II II
27 00 20 340 28 00	1555	36 39 41 43 46 48	322	11 11 11 11 12 12	37 42 47 51 56 01 05	かかかかかかち	18 18 19 19 19	45 52 59 07 15 22 30	8 7 8	28 28 28 28 28	03 14 25 37 48 59	11 [2 11 11
20 30 40 50 29 00		50 52 55 57 02		12 12 12 12 12 12	-	-	19	37 45 53 00 08 16	88 788	29 29 29 29 30 30	22 33 45 56 07 19	11
10 20 30 40 30	555	04	2	12 12 12 12 12 12	38	101010110	20 20 20 20 20 20	23 31 39 45 54 02	8788	30 30 31	30 42 54 05 16 28	[] []

to find the difference of longitudes.

Lat	ic.	1	Fif		1 bir	Siz	IT.	Seven	nth
gr.	m.	Lon	get.	diff.	Lon	git.	diff.	Longit	diff
	10	33	56	16	62	48	27	130 47	56
	20	39	12	17	63.	15	27	131 43	56
5.	30	39	29	16	63	42	26	132 39	56
N. Y	40	39	45	17	64	08	27	133 34	56
26	50	39	19		64	35	27	134 30	56
	-	-		_	45 90000	-	27	-	-
35	10	40	35	17	65	29	27	136 22	56
	20	41	09		68	56	27	137 18	56
	10	41	26	17	66	50	27 27	139 10	56
	30	41	43	17	67	17	27	140 06	57
27	20	42	00	16	67	44	37	141 03	56
	10	42	16	17	68	11	27	141 59	57
	20	44	33	17	68.	.38	28	142 56	127
179	20	44	50	16	69	06	27	1-13 53	56
3	10	43	06	17	69	33	27	144 49	57
. 0	50	43	40	17	70	28	28	145 46	57
28	20		-	-	-	-	-	147 45	57
		43≥ 14	57	18	70	55	27 28	148 27	15/
1		4.		17	71	50		140 24	157
		41	49	17	72	17	27	150 31	57
	50	145	06	17	72	44	28	151 28	150
29	00	45	23	17	73	12	-		58
1	10	45		17	73	39	28	153 24	58
		15	57		74	39	28	154 22	58
1	30	45		17	74	35	28	155 26	58
	40	15	31	17	75	03	1 0	157 16	558
20	200	46 +7	40	16	75	31	28	158 1	

The second Table of Rumbs,

Lac	t.	F	и	t	1.5	eco	nd	1	Th	ird		Fou	irth
gr.	m.	Lon	g.	diff	L	ng.	dif.	Lo	ng.	dif.	L	mg.	di
30	10 20 30	6	18 20 22	2 3 2	13	70 12 16 21	4 5	25 25 25 25	17 25 32	8	31 31 32 32	51	11
31	40 50 00	6_ :	25	3	13 13 13	26 31	5	25 25	48	3	32 32	38	-
32	10 20 30 40 50	6 6 6 6	32 34 37 39 41 43	2 3 2 2 3	13 13 13 13 13	36 41 46 51 56 00	5	26 26 26 26 25 26	56 04 12 19 27 35	7888	32 33 33 33 33 33	13	12 11 12 12 12 12
33	10 20 30 40 50	0 4	18 1 3 5 8	2 2 2 3 2	14 14 14 14 14	05 10 15 20 24 29	5 4 5	26 26 26 27 27 27	43 51 59 07 15 22	8	34 34 34 34 34 34		
34		7 67 7	00 03 05 08 10 12	3 2 3 2 2 2	14 14 14 14 14 15	34 39 45 50 55 00	56 5	27 27 27 27 28 28	39 47 55 03 11	9000	35 35 35 35 35 36	11 23 35 47 59 11	12 12 12 13 12
	-	7 1 7 7 7 7 7	22	3 2 2 2	15 15 15 15 15	_	4 5 5 5	28 28 28 28 28	19 27 35 43 51	000000	32 36 36 37 37	23 35 48 00 12	12 13 12 12 12
35	00		26		15	30	5	29	00	3	37	24	12

to find the difference of longitudes.

Lat	ic.	1	Fif	t	1	Sixt		1	Seve	nth
grd	101,	Lo	ugu.	diff.	Los	ngit.	diff	Lon	git.	diff.
	40	47 47 48 48	58	17 18 17 17 18 17	76 76 77 77 78 78	23	28 28 28 28	160 161 162 163 164	10	1,0
32	10 20 30 40 50		43	18 17 18 18 19	79 79 80 80 81 81	12	28 29 28 28 29 28	165 166 167 167 168 169	02 01 09 59 58 58	59 59 59
		51 51	53 10 28 46 04 22	18	82 82 83 84 84 84	05 33 02 31 00 29	29	170 171 172 173 174 175	55	59 59 60 60 60
	10	52 53 53 53	40 58 16 34 52 10	18	84 85 86 86 86 87	57 26 55 24 53 22	29 29 29 29	176 177 178 179 180 181	55 55 55 56 57	60 60
	10 20 30 40	54 54 55 55 55	28 46 04	18 18 18 18	87 88 88 89 89	51 20 50 10 48 18	29	182 183 184 186 187 188	57 58 59 01 01 02	61 61

The fecond Table of Tumbs,

Laci	c.	DV.	Fir	t	S	cco	nd	1 7	[bi	rd.	F	ou	rth
gr.	199.	L	ng.	diff	Lo	ng.	dif.	Lo	ng.	dif-	Lo	·g.	dif.
"	2Q 3Q	7	29 31 34	3 2	15	35 49	5	25 25 25	08 16 24	8888	37 37 38	48	12 13 12
36	40 50 00	777	36 39 41	322	15 16	55	5	25 25 25 25	32 40 49	0000 0	38 38 38	13 25 38 50	13 12
	30	7777	43 46 48 51	32 32	16 16 16 16	05 11 16 21	5	26 26 26	57 06 14 22	988	39 39 39	15 27	12
37	50	7	53 55 58 01	3 3 2	16 16 16 16	36	5	26 26 26 26	38 46	8	39 39 40 40	39 52 04 17	13 12 13 13
	30 40 50	888	03 06 08	3 2 3 3	16 16 16 17	47 52 57 02	5	27 27 27 27	04 12 20 29	8 98	40 40 40 41	30 42 55 8	12 13
	10 20 30	888	14 16 19 21	2 3 2	17	07	566	27 27 27 28	37 46 55 03	9 0 8	41 41 41 41	20 33 46 59	13
	40 50 80 10	8	24 26 29	3 2	17 17 17	29 34 39	5	28 28 28	28	8	42 42 42	12 25 38	13
	20 30 40	888	31 34 37	3	17 17 17 18	44 49 55	56	28 28 28 29	37 46 55	9	43 43 43	51 04 17 30	I
40	50	8	39	3	18	06	6	29	13	18	43	43	1

o find the difference of longitudes:

Latit.	F	ft	L	Sixt		S	CYC	nth
gr.lm.	Longit	diff.	Los	git	diff	Long	git.	diff.
40	56 34	19	90 91 91 92 92 93	47 16 46	30 30 30 30 30 30	189 190 191 192 193 194	09	62 62 62 62 62 62
10 20 30 40 50	58 07 58 26 58 45 59 03 59 22 59 41	19 18 19 19 19	93 94 94 95 95 96	16	30	195 196 197 198 199 200		63
30	60 18 60 37 60 56 61 15	19 19 19	96 97 97 98 98	47 17 48	30 31 30 31 30	201 202 203 204 205 206	34 37 41 45 49	63 64 64 64 63 63
30 40 50 39	62 50 63 09 63 29	19 19 20 19	99 100 100 101 101 102	22 53 24	31 31 31 31	211	56 00 04 09 14	64
10 20 30 40 50	64 07 64 27 64 46	19	102 103 103 104 104	55 26 57 28 59 31	31	217	23 28 33 39	65 65 65 66 66

The fecond Table of Rumbs

Latit.	ETHO	Fir	it	S	cco	nd		Th	ird	F	OUI	rth
gr. m.	Las	ıg.	diff	L	ng.	diff	Lo	ng.	diff	Lo	ng.	埔
40 10	8	44	I	18	12		29	21		43	56	
30	8	47	•	18	18	3	29	39	9	44	22	13
40	8	49	2	18	28	5	29	47	9	44		
50	8	54	3	18	34	5	29	56	9	44	35 48	14
4100	8	57	3	18	39	5_	-	05	-	45	02	200
10	9	00	3	18	44		30	14		45	15	13
30	9	03	3	18	50	5	30	33		45	41	
40		08	3	19	OI	5	30	41		45	54	14
50		11	2	19	06	6	30	50		46	08	14
42 20	-	13	2	19	12	6_	30	59	100	46	22	100
10		16	2	19	18	6	31	08	9	46	35	
30		21	3	19		6	31	26	9	47	02	
40	9	24	3	19	35	5	31	35	9	47		14
150		27 30	2	19	40	6	31	44		47	43	14
43 00	2	32		19	52	5	32	02	-	47		14
20	9	35		19	57	6	32	11	17	48	10	14
30	9	37	3	20	03	6	32	20	9	48	24	14
50	9	40		20	09	6	32	29	10	48	38	14 14
4.4	9	43	3 2	20	20	5	32	48	0	48 49	66	14
io	_	48		20	26	6	32	57	-	49	20	14
20	9	51	3	20	32	6	33	06	ITO	49	34	14
30		54	3	20	38	6	33	16	9	49		14
40		57	3	20	44	17	33	34	9	50	16	14
45 00		03		20	55	6	33	44		50	30	

to find the difference of longitudes:

	tit.	Pif	n.i.	1	Sixt		Se	ven	_
	m:	Longit	diff	Lon	git.	diff	Lon	git.	diff
4	010	65 44	20	106	02	32	220	50	66
4	20	66 08		106		32	221	56	66 66
8 8	30	66 4		107		32	223	02	67
	50	67 0	100	108		32	225	15	67
es s	100	67 2	21-	108		32	226	22	66
	10	67 4		109	14	-	227	28	67
3	20	68 6	71-	109	46		228	35	67
1 1	30	68 23	3 20	110	18	32	229	42	67
	40	68 43	20	110	50	10	230	49	67
8 8	50	69 0	20	III	22	100	231	04	68 68
4		69 2	-	-	55	_	-		68
11	10	69 43 70 03	20	112	27	33	234	20	68
	30	70 2		113	33		236		58
	40	70 4		114	05	33	237	36	68
	50	71 04	21	114	38	33	238	44	69
4		71 25	1-	115	11	33	239	_	69
	10	71 45		115		33	241		69
	20	72 0		116	17	34	242		69
	30	72 26		116	51	33	243		69
4	50	73 0	21	117	57	33	244		70
4	400	73 28		118	31	34	246	49	70
4	10		21	119	05		247	59	70
4	20		21	119	39	-	249		70
4	30	74 31	20	120		34	250	19	
4	40		21	120		34	251		71
4 4	500	100	22 2L	121	21	34	252	41	
4 1 4	, 00	75 - 34	14 L.	121	55	24	1475	74	1

The Record Table of Rumb

at	it.	First		Second			Third			Fourt		
7.	m.	THE RES	diff	Lon	g. di	f	Los	g.	diff	Lo	g.	di
45	10	10 06	7.	21	016	3		53	10	50	44	14
יד	20	30 01	3	21	276	200		03	10	50	58	14
100	30	10 11	3		136		4	13	9	31	12	14
1		10 14	3		195	100		22	10	51	26	15
	50	10.17	3	21	306	- 1	34	31	10	51	56	14
46	ó	10 20	-			-1	-	-	-	52	10	-
	10	10 22	1	21	366		34	51	10	52	24	
	20	10 25		21	486		35		09	52	39	
	30	10 28		21	546		35		10	52	53	
	40	10 34	10	22	067		35	30	10	53	07	1
	50	10 37			076		35	40	09	53	22	1
47	10	-	3	22	136		35	49	10	53	37	
19.	20	10 4		22	196		35	59	10	53	59	
	30	10 4		22	256		36	-	10	54	21	
	40	10 4	3	22	316		36	-	10	54		5 1
	50	10 51		22	376	9	36	-	10	1000	5	
48	000	10 5			436	-	36	-	-	55	-	61
, 1	10		83	22	497	3	36	49		135	- 2	1
	20	11 0	10	23	566	234	37	00		55	3	61
-	30	II O	413	23	c87	2	37	34	10		1	1 1
	50	11 1		23	156	37	37	2		56	0	6
49	ÓO	II.I		23	216	53	37	4	10		-	21
	10	-	63	23	276	00	37		OIC		3	71
	20		93	23	336	0	38	0	10			81
0.	30	11 2	23	23	396	.03	38	1	OIC		2.10	150.
	40		53	23	457		38	2	011			8
1	150		83	23	527		38	4	110			4
-	1/00	1113	113	. "	171	100	-	-	-	1//	-	1

Latit.	Fit		Six	t ,	Se	venth
gr.lm.	Longit	diff.	Longia	diff	Long	it. diff
46 00 10 20 30 47 00 10 20 30 30 30 30 30 30 30 30 30 30 30 30 30	75 55 76 38 76 59 77 43 78 04 78 25 78 47 79 31 79 53 80 15 80 37 80 59	21 22 21 22 22 21 21 22 22 22 22 22 22 2	122 2 123 0 123 3 124 1 124 4 125 2 126 3 127 0 127 4 128 1 128 5 129 2 130 0 130 3 131 1	34 34 34 34 35 35 35 35 35 35 35 35 35 35	256 257 258 259 261 262 263 264 265 267 268 269	03 71 14 72 26 72 38 72 50 72 72 72 14 73 27 73 40 73 34 74 48 75 49 74 17 75
48 00 20 30 49 00 20 30 49 00	81 43 82 05 82 27 82 50 83 35 83 35 84 44 85 30 85 30 85 30	22 23 23 23 22 23 23 23 23 23 23 23 23 2	131 5 132 2 133 0 133 3 134 1 134 5 135 2 136 0 136 4 137 1 137 5 138 3 139 1	036 636 236 837 536 37 536	274 275 277 278 279 280 282 283 284 285 287 288 289 291	32 75 47 75 02 75 17 76 33 77 77 76 23 77 77 76 23 77 77 78 31 78 31 78 49 78

The second Table of Rumbs

atit.	Fir	-	Seco	bno	-	Th	ird	F	du	di
r,	Long.	研	Long	. 新	L	ng.	dif.	L	ng.	di
30	11 37 11 40 11 44	3 2		7	38 39 39 39	51 02 13 23 33	10	58888	09 25 41 56 12	16
100 200 300	11 53 11 56 12 00	3 2 2 3 2 2	4 38 4 45 4 51 4 58	7 6 7 7	39 40 40	44 54 05 16		59 59 60 60	28 44 00 16	16 16 16
5200	12 06 12 09 12 12 12 15	3 2 2 3 4 2	5 12 5 18 5 25 5 32	6 7 7 7 7 7	40 40 41 41	38 49 00 11	11 11 11	50 60 61 51 61	32 48 05 21 37	16 17 16 16 17
53 00	12 22 12 25 12 28	3 2 2 3 4 2 4 2 6	5 45 5 52 5 59	777	41 41 41 42	33 44 55	11	61 52 62 62 63	5410 27 44 80	16 17 17 16
20 30 40 50	12 36 12 39 12 42 12 45	20 3 20 4 20 3 20	5 13 5 20 5 27 5 34	7777	42 42 42 43	28 39 50	11 11 12 11	63 63 64 64	17	17 16 17 17
20 30 40 50	12 56 12 59 13 02 13 06	4 20 3 20 4 20 4 20 4 20	5 55 7 02 7 09 7 16	フフフファフ	43 43 43 43 43		12 12 11 12 12	64 65 65 55		17 17 18
5500	13 10	3 .12	7 23	7	13	11	11	15%	06,	17

2000	LIE.	-	Fut	87		Six	t	S	eve	uth
8	m,	Lon	gis,	diff	La	git	diff	Lou	Eit	diff
50	10	87	03	23	140	25		292	25	78
10	20		26		141	03	38	293	43	79:
81	30	83	50		141	41	38	295	02	
7.	50	88	37	24 24	142 142		38	296	21	80 80
51	100	80	01	23	143	35		297	OI	0
		89	24	-	-	20.00	-	300	1567	80
		89		24	144	13 52	39	301	41	81
81	30	90	12	24	145	31		303		81
	140	90	36	24	146	10	39	304	23	81
	150	91		25	146	49	39	305		81
7.4	00	-	25	-	147	28	39	307	05	_
6	10	91	49		148	07	39	308	27	
42.5		92	13		148	40	40	309		83
A.		93		25	150	06	40	311	34	10
		93	27		150	46	40	313		83
55	00	93	52		151		40	315	20	
T	10	94	17	25	152	06	40	316	44	8+
6.7	20	94	42	26	152	46	41	318	08	85
15	130	.95	08	25	153		40	319	33	84
	40	95 96	58	25	154	97		320	57	85
	00	96	23	25	154 155	20	41	323	47	85 86
54	-	-	48	-	-	10	-	-	_	86
9.0		96	14		156 156		41	325		87
65	120	97	40	26	157		42	328	06	87
1	40	98	06	26	158	15	42	329	33	
	150	98	32	26	158	57	42	331		87
55	00	98	58	26	159	39	42	1332	27	188

13/6/5

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5

Lat	it.	1	urf	ł	S	eco	nd		Thi	rd	-	oui	th
gr.	m.	Lo	ng.	diff	Lo	_	diff	Lo	ng.	diff	L	g.	di
55		13	13	3	27	30	8	44	22	12	66	25	
	20	13	16	4	27	38	2	44	34	12	66	42	
. 1	30 40	13	20	4	27	45	8	44	46	12	67	18	18
	50	13	27	3	27 28	00	7	45	10	12	67	36	18
56	00	13	30		28	c7	8	45	22	12	67	54	
	10	13	33	4	28	15	8	45	34	12	68	12	18
	20	13	37	4	28	23	7	45	46	12	68	30	18
	30	13	41	3	28 28	37	8	45		12	68	48	18
13	40	13	44	4	28	45	7	46	22	13	69	24	18
57	50	13	52	4	28	52	3	46	35	12	69	42	-0
54	10	13	56	_	29	00	0	46	47	12	70	00	
	20	14	00		29	08	7	46	59	13	70	19	19
	30	14	03	4	29	15	8	47	12	12	70	38	18
	40	14	07	1	29	31	7	47 47	36	13	70 71	56	
58	00	14	14	4	29	38	8	47	49	12	71	34	1
	10	14	18	4	29	46	8	48		13	71	53	1
1	20	14	22	+	29	54	8	48		13	72	12	119
1	30	14	26	3.	30	02	19.	48	27		72	31	19
	50	14	33	+	30	18	8	48 48	53	13	72 73	09	
59		14	37	4	30	26	9	49	06	13	73	29	
- 1	10	14	41	3	30	35	8	49	19	13	73	48	
	20	14	44	+	30	43	3	49	32	13	7.4	07	20
	30	14	48	4	30	51	8	49		13	74	27	
	50	14	56	+	30	59	8	49	58	13	74	47	
	00	14	0	1	21	15		50	25		175	27	15.7

to find the difference of longitudes.

Lat	nt,		Fi	t	1	Si	Kt	Se	venth
r.	m.	Lon	git.	diff	Lon	git.	diff	Lon	git diff
55	10	99	24	26	160	21	42	333	55 88
,,		99	50	27	161	03		335	23 89
	30	100	17		161	46		336	52 89
	40	101	43		162	29 12		338	21 89 5089
56	00	IOI	37		163	55	43	341	1990
	-	102	-	27	164	38	-	342	-0-
		102	31	27	165	21	44	344	4991 2091
		102	58		166	05	44	345	51 91 22 92
		103		27	166	49	44	347	
57	10	103		27	167	33	45	348	54 92
)/	-	104	19		-	_	44	350	_ 22
		104	45	28 28	169	.02	44	351	59 93 32 93
	20	105		28	170	3 I	45	355	05 94
	10	106	10	28	171		45	356	39 94
	150	106		29	172	01	46	358	13 94
58	20	107	07	28	172	49	45	359	47 95
		107	35		173	32	46	361	22 96
		108		29	174		46	362	58 96
		108		28	175	50	+6	366	34 97
	150	109		29	176	37		367	48 97
59		109	58	29	177	24		369	25 98
	10	110	27	29	178	11	47	371	03,98
	1	110	56	30	178	58	48	372	41 99
	1	III		29	179		48	374	20 99
		111	-	30	181	34		375	39 100
6b	CO	112		30	182			377	19 101

The fecond Table of Rumbs,

Lat	it.		H		5	eco	nd	1	Thi	id	F	οu	ri
gt.	78.	Le	ng.	diff	Lo	ng.	diff	Lo	Mg.	diff	Lo	ng.	L
601	10	15	04	4	31	24	8	50	38	13	75	4	20
	20		08	4	31	32	9	50	51	14	76	47	20
		15	12	4	31	41	8	ŚI	-	14	76	27	100
	40		16		31	49	8	151	19	13	76	47	•
<i>-</i>	50		20		31	57	8	51	33		177	08	
	00	15	25	4_	32	05	9_	41	47	13	77		20
	10		29	4	32	14	9	52	00	14	77	49	21
	30	15	33		32	23	9	152	14		178		21
	30	15	37	4	32	32		152		14	78		21
		15	41	5	32	41		52		14	78		21
6.71	50	15	46		32	49	9	52		15	79		21
-	00	-	50	-	32	58	-	53	11	14	79	34	-
	10	15	54	4	33	07	9	53	25	14	79	55	
	20	15	58	5	33	16		53	35	14	180	17	
	30 40	16	43	4	33	25		53	53	15	81	39	
	50	16	12	4	33		9	54		15	81	01	
3	00		16	4	33	43	9	54		15	81	45	
	-	-	-	-	-	_	-	-	_	-	82	-	
	20	16	25	15	34	01	-	5+	52	15	104	29	300
1	30	16	29	15	34	10		155	22		182	51	22
	40		34		34		10	55		15	83	13	
	50	16	38		34	38	9	55		15	193	36	0.00
64	ÓÒ		43	4	34	47	10	56		15	183	59	
	10	16	47	_	34	57	10	56	22	15	84	22	27
-9	20	16	52		35	07		56		16	81	45	. 6
	30	16	56		35		10	56		16	185	08	23
1	40	17	01	4	35	26	10	157		16	185	31	1.15
4	50		05	15	135	36	9	57		16	33	54	
65	10	17	10	15	135	45	10	157	41	15	136	19	2:

to find the difference of Longitudes.

Latin	31		Pif		16	Six		Seve	nth:
or.10		Long	-	diff.	Long	is.	diff.	Langis	diff.
60	10	113	25	30	182	58			101
		113	55	31	183	46	49		102
		114	26	30	184		49		102
- 3		114		31	185		50		103
	50	115		31	186	04	50		103
		115	58		-		-	-	
1		116		31	187		50	100	105
7.1		117		31	189		50		106
	40	117	02	31	190		51	396 31	106
	40	118	33	32	191		51	398 17	107
		119	05	32	192	07	51	400 04	108
7	-	119	37	1	192	58	52	401 52	108
1		120		33	193	50	52	4C3 40	108
100	30	120	42	32	194		52		3109
10.14	40	121	14	133	195	34	53		109
	50	121	47	33	199				5110
03	-	122	_	33	197	-	53	-	
		122		333	198	13			112
		123		134	199	07	54	1	1112
	30	124		33	200		55		114
	4	125	0	334	201		55		114
64	C	125	4		202	45			115
		126	-	35	203	-	56	-	116
		126	50	35	204	36	56	426 0	116
		127	25	35	205	32	56	428 00	117
	40	128	00	35	206		57		118
	150	128	35	1,35	207	25	1.0		118
05	00	120	10	2.35	208	22	K7	423 52	120

The fecond Table of Rumbs;

Lat	it.	118	Fin	A	1 5	eco	nd	1	Th	ırd		00	rth
gr.		Lo	ng.	diff	L	ng.	dif	L	ng.	dif	L	mg.	di
65	10	17	15	14	35	55	10	57	56	16	86	42	24
		17	19	5	36	05	01	58	12	16	87	06	24
	30	17	24	5	36	15	10	58	28	16	87	30	24
	40		29	5	36	25	10	58	. 77	16	87	54	
66	50		34	5	36 36	35	10	59		17	88 88	18	-
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	20	17	43	5	36	55	11	59	33		89		25
1	30	17	48	5	37 37	16		59	- 1	17	89	3 ²	25
	40	17	53	5	37	26		60	0.00	17	90		25
_	50		03	5	37	37	11	60	40	18	90	47	26
67	00	18	08	5	37	48	10	60	58	17	91	13	26
	10	18	13	6	37	58	11	61	15	17	91	39	26
	20		19	14	38		11	61		17	92	05	26
	30	18	24		38	20		61	49		92	31	26
	40	10	30	2	38 38	31		62	25	-	92	57	26
68	00	18	40	3	38	53	11	62	. 2	17	23	50	27
	10	-	45	5	39	04	11	63	_	18	94	17	27
	20	18	51	6	39	15	11	63		18	94	44	
	30		57	5	39	26	12	63	36		95	11	27
	40		02	5	39	38		63	54		95		28
69	50		07	6	39	49		64	00.	10-		06	1
,	00	-	13	5_	40	00	12	64	32	-	96	34	-
2.		19	18		40		12	64	30		97		28
1		19	24	5	40	1	11	65	28		97	39 58	28
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- 1	50		41	5	40	58		65		20	98	56	
70	00	19	47	5	41	10	-	65	25	20	199	25	29

to find the difference of Longitudes.

Lat	it.		Fif		11	Six	t.	5	eve	nth
gr.	776.	Lon	gis	diff.	Lon	git.	diff.	Lon	git	diff
65	10	129	45	36	209	19	58	435	53	120
	20	130	21	36	210	17		437	53	121
	30	130	57	36	211	15		439	54	122
		131	33	36	212	13		441		122
	50	132		37	213	12	59	443		123
66	00	132	45	37	214	11	60	446	OI	124
		133	23	37	215		60	448	05	125
	20	134	00	38	216	II	60	450	10	125
5		134	38	138	217		61	452		126
		135	16	138	218		61	454		127
		135	54	38	219	13	61	456		129
67	00	136		38	220		62	458	37	129
		137		39	221		62	460		130
10		137	49	39	222	18	63	462		131
1	30	138	28	139	223		63	465		132
		139	07	39	224	24	64	467		133
68		139	26	40	225		64	469		134
00	-	_	-	-	-	-		471	-	
		141	06		227	37	65	474	OI	136
		141		4I 4I	228	42	66	476	17	136
	30	142	7.50	41	229	48	67	478	33	138
-		143		41	332	54	67	480 483	20	138
69	3	144		42	233		58	485		141
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1:1		145	13	43	234	16	68	487		142
		146	28	43	235	32		490	- 1	143
		147		43	237	41	70	494		145
1	50	148			238	51	70	497		140
70	ool	148		4.1	210	0.		100	40	148

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Lac	it.	1	Pir	ft	S	eco	nd	1	Thi	rd	Fo	un	h
gr.	m.	Lon	g.	diff	Lo	ng.	diff	Lo	ng	diff	Lon	git	4
70	01		53		41	23	12	66		19	99		30
	20	19	59	5	41	35	13	67	05	20	100	24	
	30		04		41	48	12	67	25	20	100	54	
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74	∞	22	21	8	16	34	15	75	07	25	112	25	30
	10	22	29	7	46	49	15	75	32	24	113	01	3
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to find the difference of longitudes.

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	30		45	243	36	73	507	Sept.	151
1	40	151 45		244		73	509	47	152
71	50	152 31		246	02		512	0	154
1	-	1-13	-	247	16		514	53	155
1	10		46	248	30		517		156
	30	154 49	48	249	45	76	520	04	159
	40		48	251	01	76	522	21	161
1	50		48	252	17	78	528	21	162
73	no		49	253	34	78	530	44	163
	10	-	-	-	_	-	-	27	165
1	20		49	256	10	79	533	12	166
1	30		50	257	29	81	538	58	168
	40		50	260	10	82	541	46	173
	50	162 07	51	261	32	82	544	36	171
73	S	162 58		252	54		547	27	173
1.	110	163 49	52	264	17	84.	550	20	174
	20	164 41		265	41	84	553	-	176
	30	165 34		267	05	85	556		178
1	40	166 27	10.	268	35	36	559		180
74	50	167 21		269	56	37	562	- (181
74	<u>~</u>	168 15	55	171	22	38	565	-	183
1	10	169 10	155	272	51	89	568		185
1	30	69 5	1 4	274		90	571		187
	30		55	275		91	574.	24	189
1 .	40		57	277		92	577		171
75	50		157	278	26	93	583		194
1.,		113 30	72	200	40	74	703	10	190

D	70	ma.	Fel	THE	M	ar.	1.1	pril	M	41	In	ME
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10	20	100	10	38	10	110	14	47	20	10	23	31
11	19		10	16	0	33	12	28	20	22	23	32
12	19	32	09	54	0	57	12	28	20	34	23	31
13	19		09	32	1	21	12	48		54	23	30
14	18		09	10	1	44 08	13	07	20	56	23	28
15	-		08	48	2	08	13	27	21	07	23	
16	18	33	08	25	2	31	13	46	21	17	23	26
17	18	17	c8	03	2	54	14	05	21	27	23	23
18	18	02	07	40	3	18		24	21	37	23	20
19	17	45	07	17	3	41	14	42		46	23	17
20	17	28	06.	54	4	05	15	01	21	55	23	14
21	17	II	05	31	4	28	15	19	22	04	23	10
22	16	54	06	08	4	.51	15	37	22	12	23	ce
23	16	35	,05	45	5	14	15	54		20		01
24	16	18	05	21	5	37	10	12	22	27	22	55
25	16	00	04	58		00	_	29	22	34	22	50
26	15	42	04	3+	6	23		46	22	41	22	41
27	15		C4	11	6	45	17	02	22	47	22	37
28	14	04	03	47	7	C7	17	18	22	53	22	31
29		45			7	30	17	34	22	58		23
30		26			7	52	17	50	23	03	22	16
31	14	06		1	8	14			33	08		

51 12 41 1 1910 13 19 41 23 31	00 14 54 4 01 07 38 17 56 23 13 15 14 36 3 38 08 00 18 12 23 17 42 14 17 3 15 08 22 18 28 23 20 32 13 58 2 52 08 45 18 43 22 23 26 12 13 20 2 05 09 29 19 13 23 28 02 13 01 1 42 09 51 19 27 23 30 51 12 41 1 19 10 13 19 41 23 31 40 12 21 0 55 10 35 19 55 23 31 48 12 01 0 32 10 56 20 08 23 32 16 11 41 0 08 11 18 20 21 23 31 04 11 21 0 \$16 11 39 20 34 23 30 51 11 00 0 20 12 00 20 46 23 29	00 14 54 4 01 07 38 17 56 23 13 51 14 36 3 38 08 00 18 12 23 17 42 14 17 3 15 08 22 18 28 23 20 32 13 58 2 52 08 45 18 43 22 23 22 13 39 2 29 09 07 18 58 23 26 12 13 20 2 05 09 29 19 13 23 28 02 13 01 1 42 09 51 19 27 23 30 51 12 41 1 19 10 13 19 41 23 31 40 12 21 0 55 10 35 19 55 23 31 48 12 01 0	00 14 54 4 01 07 38 17 56 23 13 51 14 36 3 38 08 00 18 12 23 17 42 14 17 3 15 08 22 18 28 23 20 32 13 58 2 52 08 45 18 43 22 23 22 13 39 2 29 09 07 18 58 23 26 12 13 20 20 69 29 19 13 23 28 02 13 01 1 42 09 51 19 27 23 30 51 12 41 1 19 10 13 19 41 23 31 40 12 21 0 55 10 35 19 55 23 31 48 12 01 0 32 <td< th=""><th>-</th><th></th><th>Augu. North</th><th>Septe. North</th><th>South</th><th>Nove.</th><th>South</th></td<>	-		Augu. North	Septe. North	South	Nove.	South
5 21 22 13 39 2 29 09 07 18 58 23 26 7 21 12 13 20 2 05 09 29 19 13 23 28 8 21 02 13 01 1 42 09 51 19 27 23 30 9 20 51 12 41 1 19 10 13 19 41 23 31	6 21 22 13 39 2 29 09 07 18 58 23 26 7 21 12 13 20 2 05 09 29 19 13 23 28 8 21 02 13 01 1 42 09 51 19 27 23 30 9 20 51 12 41 1 19 10 13 19 41 23 31 0 20 40 12 21 0 55 10 35 19 55 23 31 120 48 12 01 0 32 10 56 20 08 23 32 20 16 11 41 0 08 11 18 20 21 23 31 32 0 04 11 21 0 \$ 16 11 39 20 34 23 30 4 19 5 111 09 0 20 12 00 20 46 23 29	6 21 22 13 39 2 29 09 07 18 58 23 26 7 21 12 13 20 2 05 09 29 19 13 23 28 8 21 02 13 01 1 42 09 51 19 27 23 30 9 20 51 12 41 1 19 10 13 19 41 23 31 120 48 12 01 0 32 10 56 20 08 23 32 20 16 11 41 0 08 11 18 20 21 23 31 32 20 16 11 41 0 08 11 18 20 21 23 31 32 20 16 11 21 0 516 11 39 20 34 23 30 41 9 51	6 21 22 13 39 2 29 09 07 18 58 23 26 7 21 12 13 20 2 05 09 29 19 13 23 28 8 21 02 13 01 1 42 09 51 19 27 23 30 9 20 51 12 41 1 19 10 13 19 41 23 31 120 48 12 01 0 32 10 56 20 08 23 32 20 16 11 41 0 08 11 18 20 21 23 31 32 20 16 11 41 0 08 11 18 20 21 23 32 419 51 11 09 10 39 12 21 20 23 22 23 22 23 22 23 2	2 2	1 51 1 42	14 54	3 38	07 38 08 00 08 22	17 56 18 12 18 28	23 13 23 17 23 20 22 23
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5	21	05	12	30	1	55	09	58	19	00	23	24
6 7 8	20	53 41	11	48	I	91	10	19 40 01	9	28	23	26
9	20 20 20	16	II	26 05 43	000	43 20 04	11	22	19	54	23 23 23	30
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13		31	09	38	I	15	12	43	20	42	23	31 30 28
15	18	37	08	53 31	2	25	13	41	1	15	23	28
17	18	21	08	08	2	49	14	10	21	35	23	24
19	17	32	06	59	3	36 59	14	38	21	4		15
21 22 23	16	58	06	36	4	45	15	32	22		23 23 23	06
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2 20 2 20 3 20 1 1 9	19	12 11 11 11 10	06 46 26 05 44	00000	37 14 10 33 57	10 11 11 11 11	51 12 34 55	20 20 20 20 20	05 18 31 43 55	23 23 23 23 23 23	32 31 298
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19	18 40 18 25 18 09	008 36 008 14	2 30 2 43 3 07 3 30	13 37 13 56 14 15 14 34	21 23 21 33	23 27 23 25 23 22
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3	25	17	19	18	10	07	I	38	12	52	21	15	23	44
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The Declination and right Alcondon of Stars, calculated for an years yet to come.

Names.	Ri	ght	decl	ina-	M	diftan			
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Lions heart Regulm	9		13			76	2		
Lions tale	II		16			73			
Virgins Spike	13	-	9	31	S	80	20		
Scorpions heart	16		25	37	S		1		
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t in Orions Girdle	05	03	00	35		89			
2 in Orions Girdle	05		10			88	34		
3 in Orions Girdle	05		02			87	5		
Great dog Sirius	06		16			73			
Little dog Procyon	07		06		N	83	5		
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Girdle of Andromeda	00		133	55	N	56	2		
Whales belly	101		II	54	S	78			
Hydras head	98	21		30	N	85	30		
Pégalus mouth	21	28		24	N	81	30		
Pegafus (houlder	23	59	13		N	76	38		
Head of Andromeda	23		127			62	4		
Perseus right side			48			41	24		
In the Whales Chap	02	45				87	1		

Whales one Orions left shoulder	05	-	6	1	N	8	50
The forefoot of great dog						72	
Pole-flar	00	31	87	33	N		37
The uppermost in the square of the little Bear							
Last in great Bears tale	13	39	75	47	N	14	13
Bright Har of the Crown	13	20	27	51	N	61	9
Herculos left knee						52	39
Swans tail						45	
Serpentinus head						77	
	06						
Lions neck						68	
South ballance						75	
North ballance	IS		08	07	5	81	5

Questions of Navigation.

Question r. By the Rumb and distance of two places, to find the difference of latitude.

As the Radius is

liftan.

31

89

73

83

82

35

56

To the fine of the compl. of the rumb from the merid. So is the distance,

To the difference of latitude.

Example. If a ship sail West Northwest (that is upon the fixth rumb from the Meridian) the distance of go leagues: What shall be the difference of latitude?

First, 11 e in the Table foregoing that the angle which that rumb maketh with the meridian, is 67 deg. 30 mins the complement whereof is 22 deg. 30 mins whole fine is 38268. Therefore

As 100000 is to 38168

So u 90 to 3414 leagues the difference of latitude

or 34 to long

107 min char wit der. 43 min

This question may also be resolved by the first The off umbs where I find in the column of the first Rumb that Bo leagues make 1 deg. 32 m. and 10 leagues make 1 min. for the difference of latitude, which is together deg. 43 min. as before.

Question 2. By the rumb and latitude of two places

to find the difference of longitude.

As the Radius is

To the tangent of the Rumb from the meridian; So is the proper difference of latitude,

To the difference of langitude.

the fath rumb from the meridian) as far that from the latitude of 49 d. 32' it cometh to the latitude of 49 d. 49 what difference of longitude bath such a course made?

First, I seek in the Table of meridional parts, what degrees do there answer to each latitude, and to 51 deg. 32' I find deg. 60330, and to 49 d.40' I find deg. 57624. This being subtracted from 60330 the remainder 2710 deg. is the proper difference of latitude. The tangent of the rumb 67 deg. 30 min. is 241421. Therefore

As 100000 is to 241421,

So is 271 to 654 d. difference of longitudes.

This may also be done by the second Table of rumbs, if you look for the longitude answering there to each latitude, and you shall find that in the column of the sixth rumb to 51 d. 32' do answer 145 d. 39' and to 49 deg. 49' 139 d.6'. This being subtracted from 145 d. 39' the difference is 6 d. 33' which was sought for.

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